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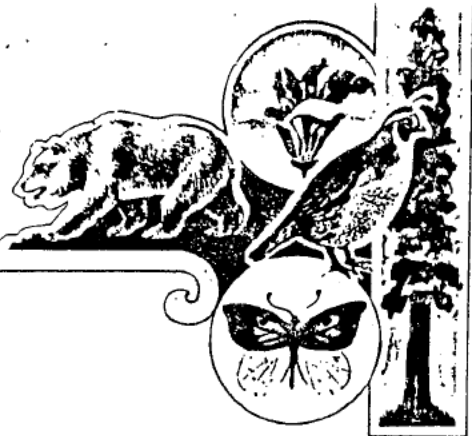


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State of California

OFFICE OF THE SECRETARY OF STATE



I, *MARCH FONG EU*, Secretary of State of the State of California, hereby certify: Omega Chemical Corporation

That the annexed transcript has been compared with the record on file in this office, of which it purports to be a copy, and that same is full, true and correct.

IN WITNESS WHEREOF, I execute
this certificate and affix the Great
Seal of the State of California this

AUG 27 1976



March Fong Eu

Secretary of State

785527

ENDORSED
FILED

In the office of the Secretary of State
of the State of California

AUG 27 1976

MARCH FONG EU, Secretary of State

By IRENE SANCHEZ
Deputy

ARTICLES OF INCORPORATION

OF

OMEGA CHEMICAL CORP.

I

NAME

The name of this corporation is OMEGA CHEMICAL CORP.

II

SPECIFIC BUSINESS

The specific business in which this corporation is primarily to engage is the processing and manufacturing of chemicals, including all activities related thereto.

III

PURPOSES

The purposes for which this corporation is formed are:

(a) To purchase, acquire, own, hold, use, process, maintain, market, advertise, sell, lease, deliver and otherwise deal in and with chemicals and all related products and goods on behalf of itself and others.

(b) To purchase, acquire, own, hold, use, lease (either as lessor or lessee), rent, sublet, grant, sell, convey, exchange, subdivide, mortgage, deed in trust, manage, improve, cultivate, develop, maintain, construct, operate, build, tear down and rebuild, equip and generally deal in, any and all real

estate, improved or unimproved, stores, office buildings, dwelling houses, boarding houses, apartment houses, hotels, business blocks, garages, warehouses, factories, mills, manufacturing plants, and other buildings of any kind or description, and any and all other property of every kind or description, real, personal and mixed, and tangible or intangible, and any interest or right therein, including water and water rights, wheresoever situated, including, but not limited to, California, other states of the United States, the District of Columbia, territories and possessions of the United States and foreign countries.

(c) To purchase, acquire, take, hold, own, use and enjoy, and to sell, lease, transfer, pledge, mortgage, convey, grant, assign or otherwise dispose of, and generally to invest, trade, deal in lands and with oil royalties, mineral rights of all kinds, mineral-bearing lands and hydrocarbon products of all kinds, oil, gas and mineral leases, and all rights and interests therein, and, in general, products of the earth and deposits, both subsoil and surface, of every nature and description.

(d) To enter into, make, perform and carry out contracts of every kind for any lawful purpose without limit as to amount, with any person, firm, partnership, association, corporation, municipality, county, parish, state, territory, government (foreign or domestic) or other municipal or governmental subdivision.

(e) To issue bonds, notes, debentures or other obligations of this corporation from time to time for any of the objects or purposes of this corporation, and to secure the same by mortgage, deed of trust, pledge or otherwise, or to issue the same unsecured; to purchase or otherwise acquire its own bonds, debentures or other evidences of its indebtedness or obligations; to purchase, hold, sell and transfer the shares of its own capital stock to the extent and in the manner provided by the laws of the State of California as the same are now in force or may be hereafter amended.

(f) To supervise and manage properties, to act as agent, broker or attorney-in-fact, to negotiate sales, leases, mortgages, deeds of trust, and other encumbrances of or on properties, whether real, personal or mixed, wheresoever situated, of any person, firm, partnership, corporation, or association; and generally to maintain, conduct and carry on the business of real estate agent or broker.

(g) To acquire, by purchase or otherwise, the goodwill, business, property rights, franchises and assets of every kind, with or without undertaking, guaranteeing or assuming, either wholly or in part, the liabilities of any person, firm, partnership, association or corporation, and to acquire any property or business as a going concern or otherwise, (1) by purchase of the assets thereof wholly or in part, (2) by acquisition of the shares or any part thereof, or (3) in any other manner; to pay for the same in cash or in the shares or bonds or other evidences of indebtedness of this corporation, or otherwise; to hold, maintain and operate, or in any manner dispose of the whole or any part of the goodwill, business, rights and property so acquired, and to conduct, in any lawful manner, the whole or any part of any business so acquired; and to exercise all the powers necessary or convenient in and about the management of such business.

(h) To manufacture, buy, offer to buy, acquire, promote, sell, offer to sell, assemble, distribute, own, hold, use, assign, transfer, exchange, lease, license, dispose of, and to invest, trade and deal in and with, goods, wares, merchandise, building materials, supplies and all other property of every class and description.

(i) To carry on the business of contractors for the construction of all works and properties of public or private use or utility.

(j) To subscribe or cause to be subscribed for, and to take, undertake, purchase and otherwise acquire, own, hold, use, sell, assign, transfer, exchange, distribute, otherwise dispose of, deal in or deal with, the whole or any part of the shares of the capital stock, bonds, coupons, mortgages, deeds of trust, debentures, securities, obligations, evidences of indebtedness, notes, goodwill, rights, assets and property of any and every kind, or any part thereof of any other corporation or corporations, government, municipality, association or associations, firm or firms, or partnership or partnerships, or person or persons, together with shares, rights, units or interests in or in respect of any trust estate, now or hereafter existing, and whether created by the laws of the State of California or of any other state, territory or country; and to operate, manage and control such properties, or any of them, either in the name of such other corporation or corporations or in the name of this corporation, and, while the owner of any of said shares of capital stock, to exercise all of the

rights, power and privileges of ownership of every kind and description, including the right to vote thereon, with power to designate some person or persons for that purpose from time to time, and to the same extent as natural persons might or could do.

(k) To form, promote and assist, financially or otherwise, companies, syndicates and associations of all kinds and to give any lawful guaranty in connection therewith, or otherwise, for the payment of money, or for the performance of any obligation or undertaking.

(l) To become a partner (either general or limited or both) and to enter into agreements of partnership, with one or more other persons or corporations, for the purpose of carrying on any business whatsoever which this corporation may deem proper or convenient in connection with any of the purposes herein set forth or otherwise, or which may be calculated, directly or indirectly, to promote the interest of this corporation or to enhance the value of its property or business.

(m) To take, purchase and otherwise acquire, own, hold, use, sell, assign, transfer, exchange, lease, mortgage, convey in trust, pledge, hypothecate, grant licenses in respect of and otherwise dispose of letters patent of the United States or any foreign country, patent rights, licenses and privileges, inventions, improvements and processes, copyrights, trademarks, and trade names, and government, state, territorial, county and municipal grants and concessions of every character which this corporation may deem advantageous in the prosecution of its business or in the maintenance, operation, development or extension of its properties.

(n) From time to time to apply for, purchase, acquire by assignment, transfer or otherwise, exercise, carry out and enjoy any benefit, right, privilege, prerogative or power conferred by, acquired under or granted by any statute, ordinance, order, license, power, authority, franchise, commission, right or privilege which any government, authority, governmental agency, corporation, or other public body may be empowered to enact, make or grant; to pay for, aid in, and contribute toward carrying the same into effect; and to appropriate any of this corporation's shares, bonds or assets to defray the costs, charges and expenses thereof.

(o) To promote or to aid in any manner, financially or otherwise, any person, firm, partnership, corporation or association of which any shares of stock, bonds, notes, debentures or other securities or evidences of indebtedness are held directly or indirectly by this corporation; and for this purpose to guarantee the contracts, dividends, shares, bonds, debentures, notes and other obligations of such other persons, firms, partnerships, corporations or associations; and to do any other acts or things designed to protect, preserve, improve or enhance the value of such shares, bonds, notes, debentures or other securities or evidences of indebtedness.

(p) To borrow and lend money, but nothing herein contained shall be construed as authorizing the business of banking, or as including the business purposes of a commercial bank, savings bank or trust company.

(q) To conduct and carry on, directly or indirectly, research, development and promotional or experimental activities, and to promote or aid financially or otherwise, any person, firm, partnership, association or corporation engaged in such activities, or in any of them.

(r) To carry on any business whatsoever, either as principal, agent, broker, attorney-in-fact, contractor, commissioned agent or partner, which this corporation may deem proper or convenient in connection with any of the foregoing purposes or otherwise, or which may be calculated directly or indirectly to promote the interests of this corporation or to enhance the value of its property or business; and to conduct its business in this State, in other states, in the District of Columbia, in the territories and possessions of the United States, and in foreign countries.

(s) To have and to exercise all the powers conferred by the laws of California upon corporations formed under the laws pursuant to and under which this corporation is formed, as such laws are now in effect or may at any time hereafter be amended.

The foregoing statement of purposes shall be construed as a statement of both purposes and powers, and the purposes and powers stated in each clause shall, except where otherwise ex-

pressed, not in any manner be limited or restricted by any reference to or inference from the terms or provisions of any other clause, but shall be regarded as independent purposes and powers.

IV

PRINCIPAL OFFICE

The County in the State of California where the principal office for the transaction of the business of this corporation is to be located is Los Angeles County.

V

DIRECTORS

The number of directors of this corporation shall be three (3) unless changed by an amendment of this Article or by a by-law duly adopted by the shareholders.

The names and addresses of the persons who are appointed to act as the first directors of this corporation are:


| <u>NAME</u> | <u>ADDRESS</u> |
|-------------------|---|
| Tina Weintraub | 1900 Avenue of the Stars, Suite 1720 Los Angeles, California 90067 |
| Janet M. Crawford | 1900 Avenue of the Stars, Suite 1720 Los Angeles, California 90067 |
| H. Fry | 1900 Avenue of the Stars, Suite 1720 Los Angeles, California 90067 |


VI

AUTHORIZED SHARES

This corporation is authorized to issue only one class of shares, and such shares are designated "Common Stock". The total number of shares is One Million (1,000,000) shares, and each such share is to have a par value of One Cent (\$0.01). The aggregate par value of all shares is Ten Thousand Dollars (\$10,000.00).

IN WITNESS WHEREOF, for the purposes of forming this corporation under the laws of the State of California, we, the undersigned, constituting the incorporators of this corporation, and the persons named hereinabove as the first directors of this corporation, have executed these Articles of Incorporation this 25th day of August, 1976.


TINA WEINTRAUB


JANET M. CRAWFORD


H. FRY

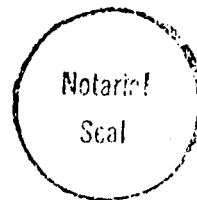
STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On this 25th day of August, 1976, before me, the under-
signed, a Notary Public in and for said County and State, residing
therein, duly commissioned and sworn, personally appeared TINA
WEINTRAUB, JANET M. CRAWFORD and H. FRY, known to me to be the
persons whose names are subscribed to the foregoing Articles of
Incorporation, and acknowledged to me that they executed the
same.

IN WITNESS WHEREOF, I have hereunto set my hand and
affixed my official seal on the day and year in this certificate
first above written.

/s/ Sharon Messenger
Notary Public in and for said
County and State

[SEAL]



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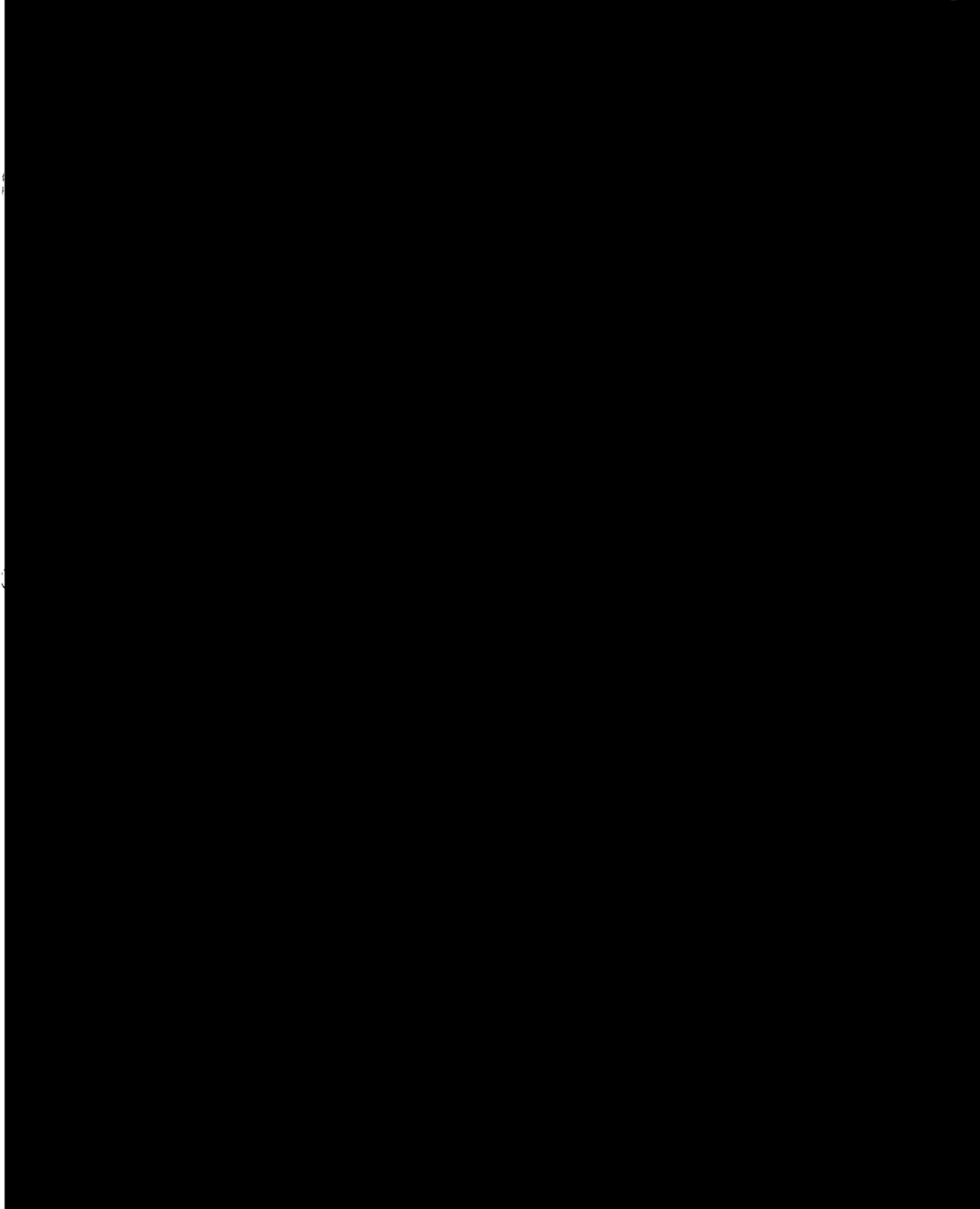


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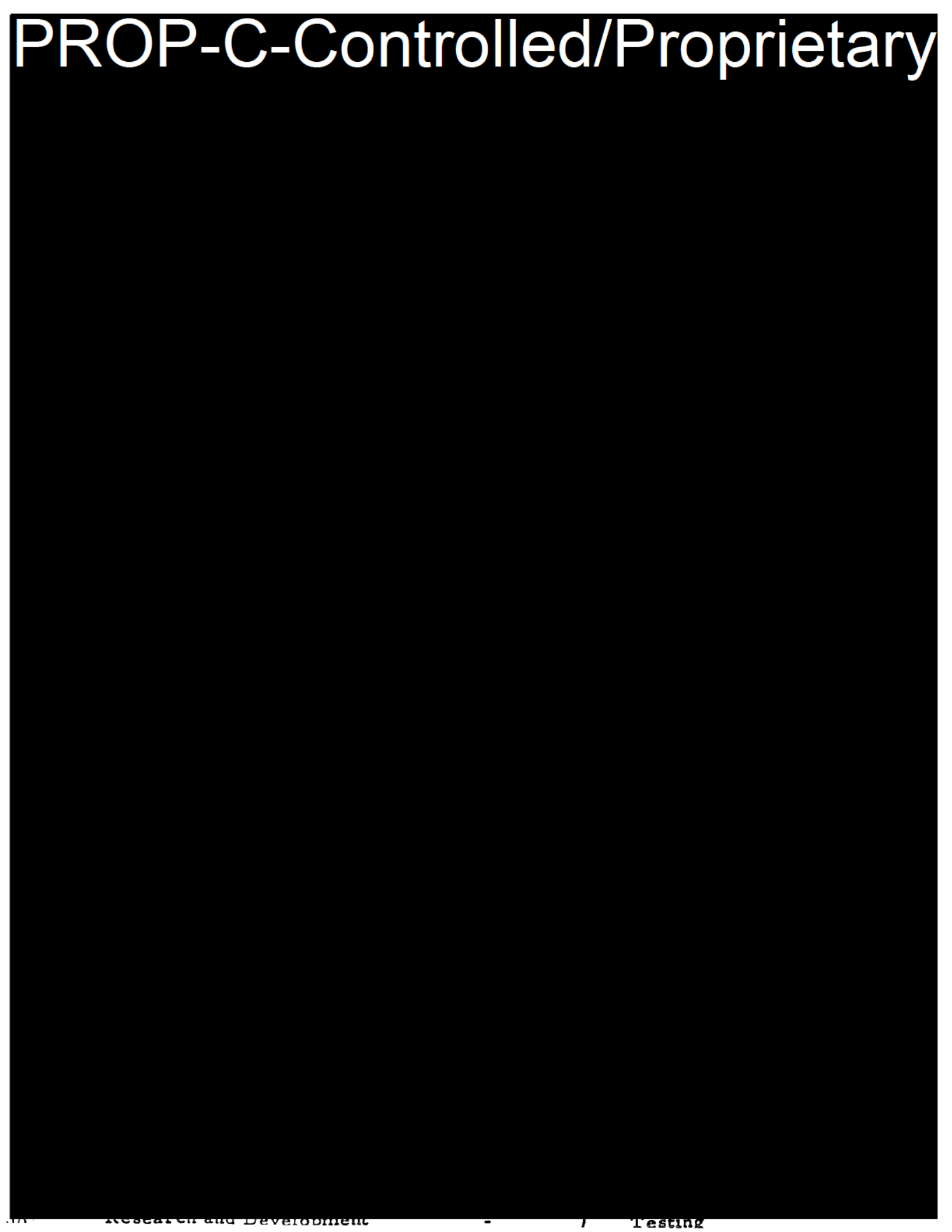
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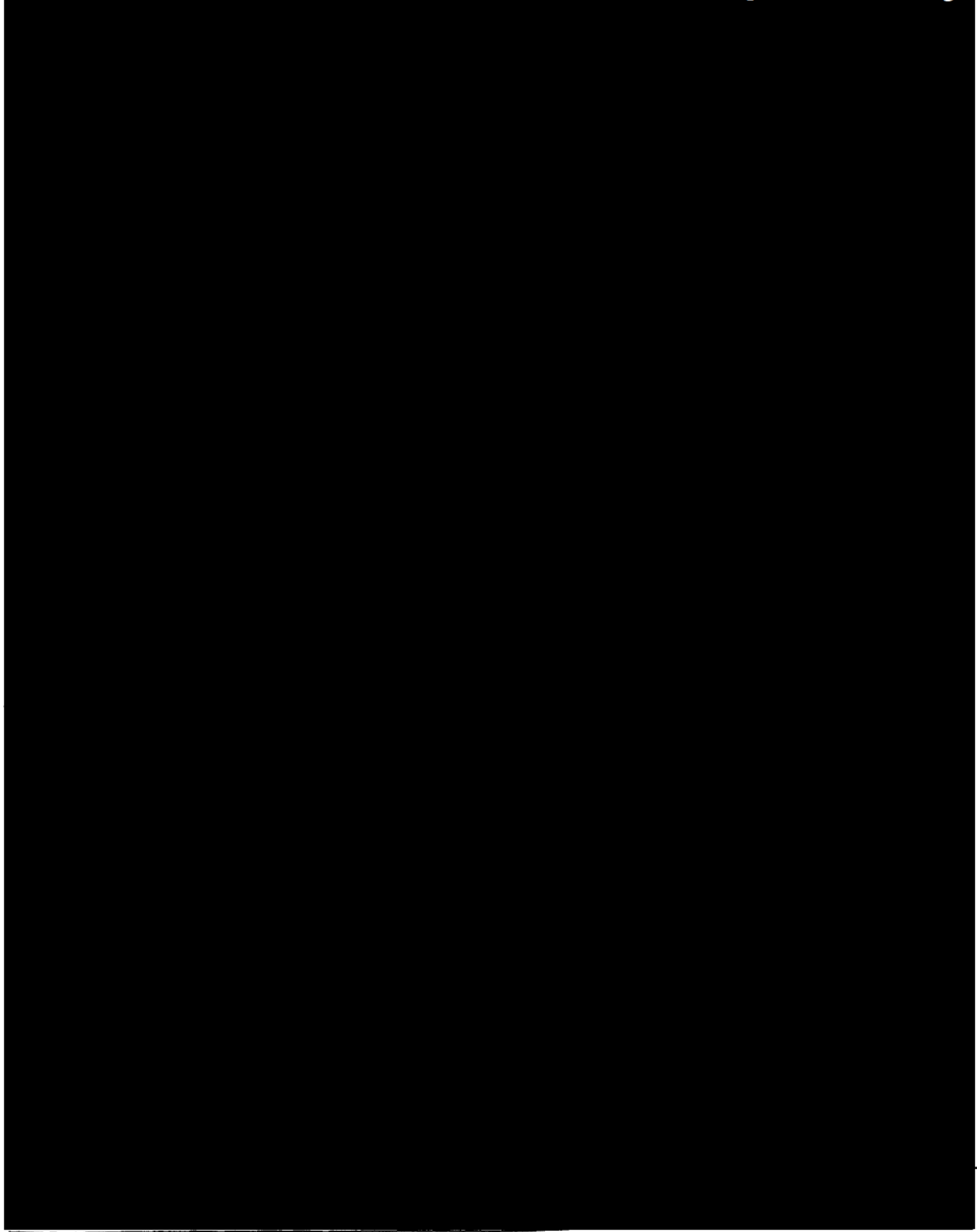


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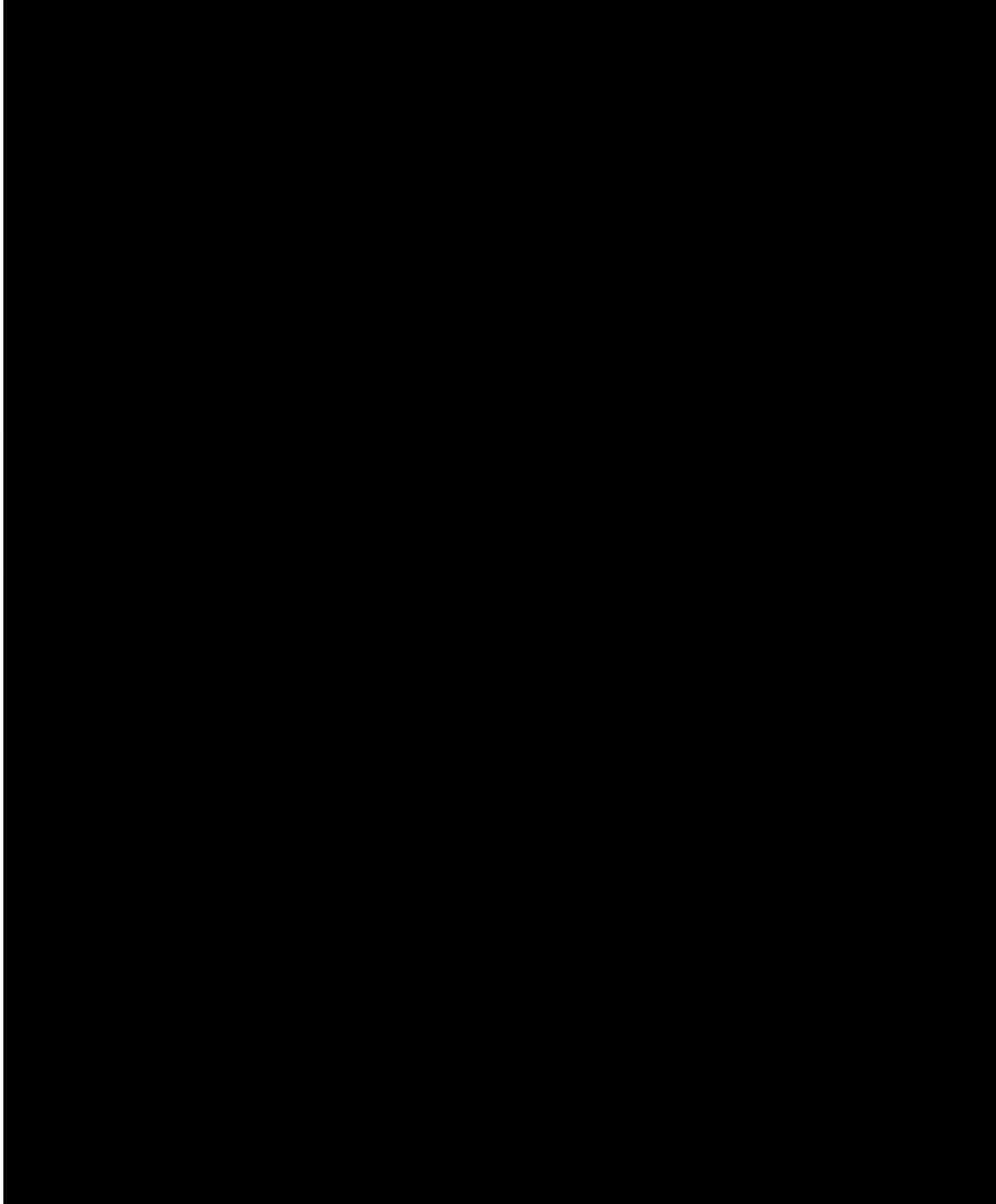
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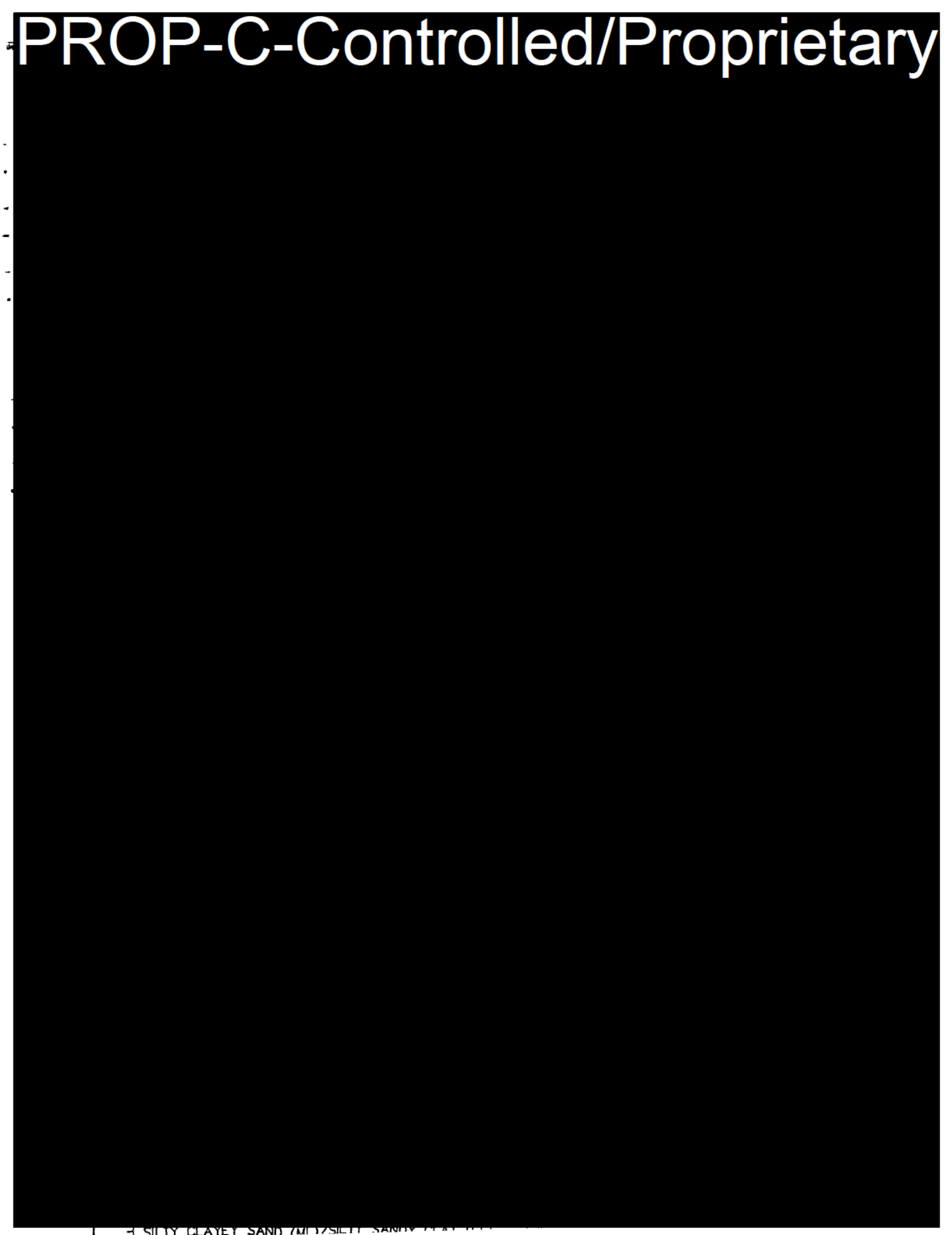
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VI. MAJOR WASTE MANAGEMENT DEVICES USED AT THE FACILITY

There are several waste treatment units and equipment used at the OMEGA facility for the storage, recycling, treatment and transport of wastes. They are:

- 3,100 drum capacity Drum Storage Areas
- 31 waste storage/treatment tanks
- 3 Distillation Units
- 3 Thin Film Evaporation Unit
- 1 Reactor
- 1 Grinder
- 1 Liquid-Liquid Separation Unit

Omega has planned for expansion of the site to include additional treatment units and storage tanks. This expansion is depicted in Figure VI-1. . This expansion and improvement effort is intended to enhance the efficiency and operational capability of the facility to manage a variety of hazardous wastes as well as to provide additional safety and environmental equipment. The improvements that are planned include addition of storage/treatment tanks; new waste treatment systems both aqueous and non aqueous; and state of the art modernization of present operating equipment. Once the proposed changes have been implemented, the following waste management devices are expected to be in use at the facility:

Drum storage areas (see Section VI.A)

- 3,100 drum capacity Drum Storage Areas
- 15 bulk storage tanks for accumulation of drummed liquids

Bulk storage/treatment tanks (see Section VI.B)

- 40 waste storage/treatment tanks
- 1 Waste Water equalization tanks

Waste treatment systems (see Section VI.D)

- 6 Distillation Units
- 3 Thin Film Evaporation Units
- 1 Liquid-Liquid Separation Unit
- 1 Solids Grinding Unit
- 1 Reactor
- 1 Biological Treatment Unit
- 1 Neutralization and Precipitation Unit
- 1 Solids Filtering Unit

Each of the existing and proposed waste management devices, which constitute OMEGA's RCRA-permitted facilities, are described in the following sections.

A CONTAINERS AND CONTAINER STORAGE AREAS

Omega receives containerized wastes for treatment/ processing from generators as well as generating its own containerized wastes from intermediate steps of treatment processing. They are unloaded from trucks and processes and placed into a Drum Storage Areas located at various places on the facility (see Figure VI-2). The containerized wastes are segregated and stored according to hazard class as shown in Table VI-1.

From storage, containerized wastes are transported to the appropriate treatment area via forklifts equipped with drum handling attachments. Most empty drums are sent off-site to be reconditioned; drums that are unsalvageable are crushed and disposed of as hazardous waste.

Containers holding multi phase wastes: both liquid and solid wastes, such as paint, solvent, and oil sludges, are received at the site. The recyclable liquid phase of the waste, if any, is decanted into a treatment tank and/or other containers for further processing. The remaining solids are consolidated with other compatible solid wastes in other containers. In other instances, containers of non-recyclable wastes may be repackaged at the site into containers that are more suitable for charging to an incinerator. Containerized wastes managed in this manner are manifested off-site as a hazardous waste for incineration or other appropriate treatment/disposal method.

OMEGA proposes to construct a new Drum Storage Area in the new expansion area (see Figure VI-3). The proposed unit will provide designated areas for all container handling requirements, from unloading and sampling to storage, processing, and removal. A dedicated drum storage tank farm adjacent to the proposed storage pad will be used for the collection and consolidation of pumpable container contents to minimize required container movement activities.

A.1 Container Specifications Used for Storage

All containerized wastes received at the facility must be shipped in DOT-approved containers. Depending on the generator and the type of waste, the containers may be new, used, recycled, or reconditioned. These containers can be drums, both plastic and/or steel and/or cardboard. They may range in size from 5 gallon container to 2000 pound pressure cylinder. The wastes will be stored in their original containers or transferred to other containers or tanks for treatment or transfer to other off-site facilities.

Before containers are accepted, they are inspected for leaks, corrosion, severe rusting, bulging, structural defects, and damage. The container must be constructed of and/or lined with materials that are compatible with the waste stored therein so that the ability of the container to hold the waste is not impaired. Drums must be properly labeled and manifested before they will be accepted by an Omega driver or at the facility.

A.2 Existing Drum Storage Areas Containment System

The existing Drum Storage Areas, depicted in Figure VI-2, are a 50 foot by 220-foot concrete pad located on the west side of the facility and 100 foot by 160 foot pad on the east side. The individual pads are surrounded by retaining walls and slopes gradually downward from the north end to the south end. The walls and berms totally surround the pads and prevent run-on to or run-off from the storage areas. Up to 3,100 drums can be stored in these areas at any one time.

As depicted on the various figures, the individual containment areas for the drum storage are bounded by concrete curbing and walls, forming a concrete containment system having a minimum volume of 10% of the total liquid volume of all of the container stored in the units. The concrete base and curbing of the container storage areas will be free of cracks or gaps. Containment capacity calculations for all secondary containment enclosures are included in Appendix O and are summarized in Table VI-2.

The concrete containment areas are coated to ensure that the base and waste stored therein are compatible. Information regarding the sealant and coatings used are in each containment area is provided in Appendix P.

The design of the each storage area promotes drainage of any free standing liquids away from the palletized containers in each area. Each area slopes to a blind sump. Containers stored on the pallets will not come into contact with free liquid within the areas. The step-shaped retaining walls that surround the Drum Storage Unit are constructed from 6-inch reinforced concrete and cinder block

Any liquid which accumulates in a containment area will be removed by absorbent material for small spills and in the case of rain or large spills will be removed by portable air driven diaphragm pumps equipped to pump the spill material. Small spills will be pumped to compatible drums or tanks depending on the size of the spill or rain condition.

The collected material will be analyzed to determine appropriate treatment of the collected waste.

In the past, accumulated rainfall that was shown to be non-contaminated by gas chromatography analysis will be released to appropriate sewer system. Omega's present policy is to capture and remove all precipitation from secondary containment areas and treat and dispose of it as a waste. Secondary containment precipitation liquids are pretreated and sewered in accordance with the terms and conditions of the LA County Sanitation District Sewer Permit. Waste spills or leaks that are collected in secondary containment areas are removed and treated as a hazardous waste.

Drums are positioned four to a pallet, three pallets high in rows which allow access for inspection. Aisle widths will be sufficient to allow visual inspection of labels and condition of containers.

The Container Storage Areas have been certified for its intended use by a registered engineer, as documented by the certification statement presented as Figure VI-4.

A.3 Containment System for Ignitable Waste.

Only compatible wastes are stored together see Figure VI-2. Ignitable wastes will be segregated from all other wastes. They are twenty-five feet from the property line as required by the Los Angeles County Fire Department (see Figure VI-5)

The containerized wastes will be stored according to EPA and DHS codes and compatibility (see compatibility charts in Waste Analysis Plan Appendix C).

A.4 Polychlorinated Biphenyls

Drums containing PCBs above regulated levels (i.e., > 50 ppm) are not accepted at the facility.

A.5 Proposed Drum Storage Area

OMEGA proposes to construct a new Drum Storage Area in the expansion site. The new unit will provide additional environmental safety due to its improved design/construction and because the central, location will provide additional buffering of wastes from off-site locations. The proposed unit will consist of a truck loading/unloading area, waste sampling area, drum storage area, drum processing area, and drum storage tanks. Drawings and an equipment list for the proposed Drum Storage Unit are included in Appendix D.I. See Figure VI-2 Area J and K.

The foundation of the drum unloading and sampling areas will be sloped gently to a non-discharging blind sump. The new expansion drum storage and processing areas will slope toward the blind sump. The sloped base will promote drainage and prevent contact between containers and standing liquids. Calculations that demonstrate the adequacy of secondary containment features are provided in Appendix O. The base and wall interiors will be coated with a chemical-resistant epoxy-type coating to prevent waste migration in the event of a spill or leak. All of the wastes stored in these areas will be segregated from incompatible wastes.

Storage Areas and conditions will be similar to Section A.2 and A.3.

Once in the sampling area, individual containers of waste will be sampled and analyzed in accordance with the facility's Waste Analysis Plan (see Appendix C). The layout of sampling lines within the sampling and analysis bay will provide convenient access to all of the containers for sampling, marking, and inspection. Subsequent to sampling and analysis, drums will be removed from the sampling area to the proper storage area, as determined from the generator's waste characterization and by OMEGA's analytical results. The containers will remain closed during storage except when it is necessary to add or remove waste.

When a sufficient number of containers of similar waste types have accumulated in storage, they will be transported to the drum processing area using forklifts. The processing area will contain the equipment necessary to transfer the contents of the containers to one of the drum storage tanks, including drum decant wands, stationary transfer pumps, manifolded pipelines, grounding connections, etc. After the containers are emptied, they will be placed in a designated area for off-site transport. Empty containers will be transferred by truck to a recycling/reconditioning facility, or crushed and loaded onto a truck for transport to a disposal facility.

TABLE VI-1
CONTAINERIZED WASTES SEGREGATION CHART

**Ignitables, Solvents, Organics,
and Organic-containing Materials**

Storage Area: A # of Drums: 971 Drums

This area is designated for wastes which are ignitable (Flashpoint < 140 F.), halogenated and non-halogenated solvents, organic compounds, and aqueous wastes with organic compounds. Those classified as flammable will not be stored within 25 of the property line. The specific wastes included in this category are listed below:

Characteristic Wastes

D001, D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D028, D029, D035, D037, D038, D039, D040, D043

Wastes From Non-Specific Sources

F001, F002, F003, F004, F005, F024

Wastes From Specific Sources

K001, K009, K010 - K030, K032 - K043, K060, K073, K083,
K085, K086, K093 - K099, K103 - K105

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

P004, P022, P037, P048, P050, P051, P059, U001-U004, U007 -
U009, U019, U020, U024 - U028, U030 - U032, U034, U036,
U037, U040, U042, U044, U045, U047 - U049, U051, U052, U054
U058, U060, U061, U068 - U072, U075 - U084, U088, U101, U104,
U105, U107, U108, U110 - U113, U115, U117, U118, U121 - U125,
U127, U129 - U132, U139, U140, U147, U149, U150, U154, U155,
U159, U161, U162, U165, U169, U170, U181, U182, U187, U188,
U190, U196, U210, U202, U207, U208, U209 - U213, U219 - U221,
U224, U234, U239, U240, U244, U257

Container Specifications: D.O.T. Specifications - 5, SA, 5B, 5C, 5M, 5K, 17C, 17E, 17F, 17H, 37P, 42B, 42D,
34, 4BW260, 110A500W, 4BA, 4BW300

overpacks - 6D or 37M with inside specifications 2S, 2SL, or 2U

Storage Area B is 5,000 Gallon Tank Storage

TABLE VI-1 (Continued)
CONTAINERIZED WASTES SEGREGATION CHART

**Solvents, organics, and Organic-
containing Materials**

Storage Area: C of Drums: 50 Drums

This area is designated for wastes which are not ignitable (Flashpoint > 140 F.) which includes solvents, organic compounds, and aqueous wastes with organic compounds. The specific wastes included in this category are listed below:

Characteristic Wastes

D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D028, D029, D035, D037, D038, D039, D040, D043

Wastes From Non-Specific Sources

F001, F002, F003, F004, FOOS, F024

Wastes From Specific Sources

K001, K009, K010 - K030, K032 - K043, K060, K073, K083,
K085, K086, K093 - K099, K103 - K105

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

P004, P022, P037, P048, P050, P051, P059, U001-U004, U007 -
U009, U019, U020, U024 - U028, U030 - U032, U034, U036,
U037, U040, U042, U044, U045, U047 - U049, U051, U052, U054
U058, U060, U061, U068 - U072, U075 - U084, U088, U101, U104,
U105, U107, U108, U110 - U113, U115, U117, U118, U121 - U125,
U127, U129 - U132, U139, U140, U147, U149, U150, U154, U155,
U159, U161, U162, U165, U169, U170, U181, U182, U187, U188,
U190, U196, U210, U202, U207, U208, U209 - U213, U219 - U221,
U224, U234, U239, U240, U244, U257

Container Specifications: D.O.T. Specifications - 5, 5A, 5B, 5C, 5M, 5K, 17C, 17E, 17F, 17H, 37P, 42B, 42D, 34, 4BW260, 110A500W, 4BA, 4BW300

OverPacks - 6D or 37M with inside specifications 2S, 2SL, or 2U

TABLE VI-1
CONTAINERIZED WASTES SEGREGATION CHART

**Ignitables, Solvents, Organics,
and Organic-containing Materials**

Storage Area: D # of Drums: 840 Drums

This area is designated for wastes which are ignitable (Flashpoint < 140 F.), halogenated and non-halogenated solvents, organic compounds, and aqueous wastes with organic compounds. The specific wastes included in this category are listed below:

Characteristic Wastes

D001, D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D028, D029, D035, D037, D038, D039, D040, D043

Wastes From Non-Specific Sources

F001, F002, F003, F004, F005, F024

Wastes From Specific Sources

K001, K009, K010 - K030, K032 - K043, K060, K073, K083,
K085, K086, K093 - K099, K103 - K105

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

P004, P022, P037, P048, P050, P051, P059, U001-U004, U007 -
U009, U019, U020, U024 - U028, U030 - U032, U034, U036,
U037, U040, U042, U044, U045, U047 - U049, U051, U052, U054
U058, U060, U061, U068 - U072, U075 - U084, U088, U101, U104,
U105, U107, U108, U110 - U113, U115, U117, U118, U121 - U125,
U127, U129 - U132, U139, U140, U147, U149, U150, U154, U155,
U159, U161, U162, U165, U169, U170, U181, U182, U187, U188,
U190, U196, U210, U202, U207, U208, U209 - U213, U219 - U221,
U224, U234, U239, U240, U244, U257

Container Specifications: D.O.T. Specifications - 5, SA, 5B, 5C, 5M, 5K, 17C, 17E, 17F, 17H, 37P, 42B, 42D,
34, 4BW260, 110A500W, 4BA, 4BW300

overpacks - 6D or 37M with inside specifications 2S, 2SL, or 2U

Storage Area E is 10,000 Gallon Tank Storage Area

TABLE VI-1 (Continued)
CONTAINERIZED WASTES SEGREGATION CHART

**Solvents, Organics, and Organic-
containing Materials**

Storage Area: F of Drums: 2112 Drums

This area is designated for wastes which are not ignitable (Flashpoint > 140 F.) which includes solvents, organic compounds, and aqueous wastes with organic compounds. Those classified as flammable material will not be stored within 50 feet of the property line. The specific wastes included in this category are listed below:

Characteristic Wastes

D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D028, D029, D035, D037, D038, D039, D040, D043

Wastes From Non-Specific Sources

F001, F002, F003, F004, F005, F024

Wastes From Specific Sources

K001, K009, K010 - K030, K032 - K043, K060, K073, K083,
K085, K086, K093 - K099, K103 - K105

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

P004, P022, P037, P048, P050, P051, P059, U001-U004, U007 -
U009, U019, U020, U024 - U028, U030 - U032, U034, U036,
U037, U040, U042, U044, U045, U047 - U049, U051, U052, U054
U058, U060, U061, U068 - U072, U075 - U084, U088, U101, U104,
U105, U107, U108, U110 - U113, U115, U117, U118, U121 - U125,
U127, U129 - U132, U139, U140, U147, U149, U150, U154, U155,
U159, U161, U162, U165, U169, U170, U181, U182, U187, U188,
U190, U196, U210, U202, U207, U208, U209 - U213, U219 - U221,
U224, U234, U239, U240, U244, U257

Container Specifications: D.O.T. Specifications - 5, 5A, 5B, 5C, 5M, 5K, 17C, 17E, 17F, 17H, 37P, 42B, 42D, 34, 4BW260, 110A500W, 4BA, 4BW300

OverPacks - 6D or 37M with inside specifications 2S, 2SL, or 2U

Storage Areas G, H, I are Tank Storage Areas

TABLE VI-1 (Continued)
CONTAINERIZED WASTES SEGREGATION CHART

Caustic Wastes

Storage Area: K # of Drums: 120 Drums

This area is designated for wastes with a pH > 7.0. These materials include hydroxides of calcium, aluminum, sodium, potassium, etc., precipitated metal hydroxides, sludges, and aqueous materials containing cyanide, sulfide, and ammonia and aqueous wastes which, because of their pH, would contain unprecipitated heavy metals. The specific wastes to be stored in this area are listed below:

Characteristic Wastes

D002, D004, - D011

Wastes From Non-Specific Sources

F006 - F012, F019

Wastes From Specific Sources

K002 - K008, K031, K046, K048 - K052, K061, K062, K069, K071, K084,, K086, K100 - K102, K106

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

P011, P012, U144 - U146, U246

Container Specifications: D.O.T. Specifications - 5, SA, 5B, 5C, 5M, 5K, 17C, 17E, 17F, 17H, 37P, 34,4BW260, 110A500W,4BA,4BW300

Overpacks - 6D or 37M with inside specifications 2S, 2SL, or 2U.

TABLE VI-1 (Continued)
CONTAINERIZED WASTES SEGREGATION CHART

Acidic Wastes

Storage Area: J # of Drums: 120 Drums

This area is designated for wastes with a pH < 7.0. These wastes included acids of various concentrations and mixtures such as sulfuric, nitric, hydrochloric, hydrofluoric, and chromic acids, generated by various industrial processes. These mixtures may often contain heavy metals. The specific waste categories are listed below:

Characteristic wastes

D002, D004 - D011

Wastes from Non-Specific Sources

F006, F019

Wastes From Specific Sources

K002 - K008, K031, K048 - K052, K061, K062, K069, K084, K086,
K100 - K120, K106

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

P011, P012, U144 - U146, U246

Container Specifications: D.O.T. Specifications - 5A, 5C Type 304 ELC or 347, 37P, 34, 42B. Chromic Acid Only - 5,5A, 5B, 17B.

Overpacks: 6D or 37M with inside specifications 2S, 2SL, or 2U.

TABLE VI-2
Containment Areas - Capacity

| Area | Tank #/or # of Drums | Capacity Required (gal.) | Capacity Available (gal.) |
|-------------|---------------------------------|---|--|
| A | (971 Drums) | 5,341 | 66,473 |
| B | Tanks 1,2,3,4,5 | 5,000 | 9,167 |
| C | (50 Drums) | 275 | 66,473 * |
| D | (840 Drums) | 4,625 | 109,208** |
| E | Tanks A,B,C,D,E,F | 10,000 | 18,475 |
| F | (2112 Drums) | 11,616 | 109,208** |
| G | Tanks 7 to 14 | 10,000 | 22,122 |
| H | Tanks 15 to 19 | 10,000 | 13,127 |
| I | Tanks 27 to 36 | 8,000 | 32,657 |
| J | (120 Drums) | 660 | 1,870 |
| K | (120 Drums) | 660 | 1,870 |

* This Area C is combined with Area A because of the possibility of drainage to A.

** Areas D & F are combined into one combined capacity requirement.

B WASTE STORAGE AND TREATMENT TANKS

The purpose of this section is to provide information regarding the design, installation, and operation of the various tank systems that are presently used and proposed to be used at Omega.

Design Standards and Descriptions

Table VI-7 and VI-8 and the tank specification sheets in Appendix D contain a variety of information for each tank. The design standards used are provided on the tank specification sheets. All tanks will be designed and anchored to meet the building standards for their use in seismic zone 4.

Waste Characteristics for Storage Tanks are listed in Table VI-3A.

Ancillary equipment will be designed according to the American National Standard Code for Pressure Piping, Chemical, Plant, and Petroleum Refinery Piping, (ANSI B31.3)

The characteristics of the wastes that will be placed in each tank are provided in Table VI-3 and VI-4.

Corrosion Considerations

The external shells of the tanks and any associated metal or material of construction or components of the tanks will not be in contact with soil or standing water. Therefore, the requirements of 40 CFR 264.192 (a)(3) (corrosion expert assessment) are not applicable.

Visual Inspections for Filling

All tanks greater than 2,000 gallon have independent cat walks allowing visual inspection of the interior to determine level of tank and remaining capacity during unloading and filling.

Omega presently uses thirty-one tanks ranging in capacity from 250 to 10,000 gallons for the storage and treatment of hazardous and non hazardous wastes and products.

The new expansion tanks will increase operational and improve environmental controls efficiencies and, because they will be provided with vapor collection systems, will result in the reduction of air emissions from tank-loading and unloading operations. The following sections describe the existing and proposed facility waste storage/ treatment tanks.

B.1 Existing Waste Storage/Treatment Tanks

The tanks that presently are used to store and treat hazardous wastes are depicted in Figure II-11 and described on Table VI-3. These tanks serve four primary functions:

- 1) treatment of wastes by settling and physical separation in tanks,
- 2) temporary storage of separated aqueous waste fractions or contaminated solvent products,
- 3) blending of solvents, still bottoms, paint pigments, etc. to meet supplemental fuel specifications,
- 4) accumulation of processing wastes.
- 5) Storage of finished products available for sale.

Most of the wastes held in facility storage and processing tanks generally are classified as Class 1, Class 11, Class IIIA, Non Flammable Gases (CFC refrigerants) or halogenated solvents.

The following tank descriptions apply to all tanks used for the storage, treatment, and blending of incoming wastes. All tanks are located aboveground and are constructed of carbon or stainless steel. Each tank is painted with a protective coating to minimize corrosion unless it is stainless. Tank liners are not required since the compatibility of carbon and stainless steel is considered to be "good" with a wide range of organic solvents (see Table VI-2). Fluid level control gauges soon will be installed on all tanks. Each tank is piped separately to preclude inadvertent waste mixing.

TABLE VI-3
Existing Storage/Treatment Tanks Omega Facility

| Tank I.D | Type | Volume (gal) | Material Handled | Purpose |
|----------|------------|-----------------|--------------------|---------|
| 1 | Vertical | 5,000 | Solvent/Fuel waste | Storage |
| 2 | Vertical | 5,000 | Solvent/Fuel waste | Storage |
| 3 | Vertical | 5,000 | Solvent/Fuel waste | Storage |
| 4 | Vertical | 5,000 | Solvent/Fuel waste | Storage |
| 5 | Vertical | 5,000 | Solvent/Fuel waste | Storage |
| Heidi | Horizontal | 3,500 | CFC refrigerant | Storage |
| Jenny | Horizontal | 5,500 | CFC refrigerant | Storage |
| Farah | Horizontal | 750 | CFC solvent | Storage |
| Racquel | Horizontal | 750 | CFC solvent | Storage |
| Carrie | Vertical | 2,000 | Product/Waste | Storage |
| Connie | Vertical | 2,000 | Product/Waste | Storage |
| Elaine | Vertical | 2,000 | Product/Waste | Storage |
| Sandee | Vertical | 2,000 | Product/Waste | Storage |
| Sheila | Vertical | 1,200 | Liquid Waste | Storage |
| Peggy | Vertical | 950 | Liquid Waste | Storage |
| Cindy | Vertical | 1,100 | Waste/Product | Storage |
| Amy | Vertical | 500 | Waste/Product | Storage |
| Loudy | Vertical | 500 | Waste/Product | Storage |
| Linda | Vertical | 500 | Waste/Product | Storage |
| Diane | Vertical | 500 | Waste/Product | Storage |
| Susan | Vertical | 500 | Waste/Product | Storage |
| A | Vertical | 10,000 | Product/Waste | Storage |
| B | Vertical | 10,000 | Product/Waste | Storage |
| C | Vertical | 10,000 | Product/Waste | Storage |
| D | Vertical | 10,000 | Product/Waste | Storage |
| E | Vertical | 10,000 | Product/Waste | Storage |
| F | Vertical | 10,000 | Product/Waste | Storage |

No specific waste designations are assigned to a tank, because all of the wastes stored in the tanks are compatible with each other and with the tank material of construction (i.e., carbon steel). Tanks are marked by identification number or name, National Fire Protection Association (NFPA) hazard designation, and, where appropriate, EPA waste designation (i.e., F001-F 005). The tank contents at any given time are described on a blackboard chart maintained in the laboratory. Facility tanks have been approved for their intended use by a registered engineer, as documented by the certification statement presented as Certification by Registered Engineer Figure VI-6.

Table VI-3A

Waste Characteristics For Storage Tanks

Tank(s) 1 to 5; A to F,

Waste Description

This tanks are designated for wastes which are ignitable (Flashpoint < 140 F.), halogenated and non-halogenated solvents, organic compounds, and aqueous wastes with organic compounds. The specific wastes included in this category are listed below:

Characteristic Wastes

D001, D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D028, D029, D035, D037, D038, D039, D040, D043

Wastes From Non-Specific Sources

F001, F002, F003, F004, F005, F024

Wastes From Specific Sources

K001, K009, K010 - K030, K032 - K043, K060, K073, K083,
K085, K086, K093 - K099, K103 - K105

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

P004, P022, P037, P048, P050, P051, P059, U001-U004, U007 - U009, U019, U020, U024 - U028, U030 - U032, U034, U036, U037, U040, U042, U044, U045, U047 - U049, U051, U052, U054, U058, U060, U061, U068 - U072, U075 - U084, U088, U101, U104, U105, U107, U108, U110 - U113, U115, U117, U118, U121 - U125, U127, U129 - U132, U139, U140, U147, U149, U150, U154, U155, U159, U161, U162, U165, U169, U170, U181, U182, U187, U188, U190, U196, U210, U202, U207, U208, U209 - U213, U219 - U221, U224, U234, U239, U240, U244, U257

Tank(s) Heidi, Jenny, CFC 1 to 4

Waste Description

This tanks are designated for wastes which are can be liquids under pressure. They are primarily Chlorofluorocarbons which can have ignitable (Flashpoint < 140 F.), halogenated and non-halogenated solvents, organic compounds, and aqueous wastes with organic compounds. The specific wastes included in this category are listed below:

Characteristic Wastes

D001, D018, D019, D020, D021, D022, D023, D024, D025, D026, D028, D029, D035, D037, D038, D039, D040, D043

Wastes From Non-Specific Sources

F001, F002, F003, F004, F005, F024

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

U044, U075, U121, U208, U209, U210, U226, U080, U228

All facility tanks are installed on concrete foundation pads or concrete encased legs that have sufficient bearing capacities to support the fully loaded tanks. The walls and dikes that surround individual process areas provide secondary containment for the waste storage/process tanks, as discussed in Appendix O. Containment walls also prevent run-on from entering a tank process area. After a rainfall event, the contained precipitation is removed by pumps for proper disposal.

Transfer operations to and from a tank or from a tank to a treatment unit are performed using pumps and flexible hoses or dedicated stainless steel pipes ASME schedule 40. Pumping rates depend on the type of chemical involved and whether the waste is being pumped from drums or trucks. During transfer operations, Omega employees monitor liquid levels to ensure that the tank/treatment unit is not being overfilled.

All tanks and associated secondary containment areas are inspected daily for signs of leakage or structural damage/deterioration. Inspection elements, described in the Inspection Plan (see Appendix E), include gauges, valves, piping, vents, seams, legs, leaks, containment walls, and areas adjacent to the tanks.

High and low level alarms will be provided as depicted on the drawings included in Appendix D.I. A tank data sheet for the storage tanks is provided in Appendix D.I.

Five 5,000-gallon and six 10,000-gallon treatment tanks are in use at the facility to process the various solvent waste streams prior to distillation (see Table VI-3). These atmospheric tanks are steel welded with an attached weak shell roof. Tanks are designed to conform with NFPA and - Underwriter - Laboratories (UL) standards and specifications so that they safely retain their contents under operating conditions.

Specifications for the 5,000-gallon processing tanks, as shown in Figure VI-7, specifications for the 10,000 gallon processing tanks, as shown in Figure VI-8 are as follows:

- 93-inch outer diameter
- 145-inch shell length cone bottom
- 1/4-inch hot-rolled carbon steel throughout
- 18-inch diameter manhole
- 4-inch special vent connection
- H-beam legs
- Shop prime, red oxide coating
- Air and soap bubble tested for leaks.

Compatible and physically similar solvent wastes are pumped into a processing tank from drums or bulk liquid vehicles, where solids and semi-solids settle out and waste fractions separate according to their densities. After a sufficient time has elapsed to allow for the completion of these physical treatment processes, different waste fractions will be drawn off for recycling via processing or for incineration or other means of treatment/disposal (aqueous fraction and tank bottoms).

Solvent wastes destined for use as supplemental fuels are pumped into one of the blending tanks using grinding and particle-sizing pumps. Tank contents are blended and particulates are kept in suspension by the use of pumps to agitate waste material.

After the material has been blended sufficiently to meet the viscosity requirement, it is pumped directly into tank trucks for off-site use as a supplemental fuel. One criterion the blended product must meet is the viscosity requirement of 100 centipoise. This typically is accomplished by blending a flammable sludge consisting of still bottoms, residues, and resinous materials with dirty, low yield lacquer thinner. (The lacquer thinner waste will have a concentration less than 55%, the point below which it is considered uneconomical to reclaim.)

Vapor Recovery

The vapor recovery line is connected-- to each processing tank with a 2-inch - fitting. Thus, air that is expelled during the filling of the blending tank is recycled to displace the wastes that are discharged from the processing tanks. A 3-inch in-line breathing vent allows for air breathing to prevent over- or under pressurization of the tanks. .

B.2 Proposed Waste Storage/Treatment Tanks

Design specifications for the proposed waste storage/treatment tanks are provided on the tank data sheet included in Appendix D.3. A Design Assessment Report and tank certification statement is provided in Figure VI-10. Each tank will be mounted on externally attached support legs which will be secured directly to the foundation or to a raised pad, in accordance with installation procedures described in Appendix D.3. Three feet of clearance will be provided under each tank for associated piping and pumps and to prevent the tanks from contacting spilled or leaking waste material.1s. .

A corrosion allowance of 0.14 inch will apply for the purpose of tank integrity assessment, based on the following source:

From Welded Steel Tanks for Oil Storage, API Standard 650, Appendix A, Seventh Edition, November 1980.

Corrosion Allowance = 0.14 inches

All storage/treatment tanks will be constructed to API 650 standards from A285 Grade C steel plate or equivalent. Liners will not be required because carbon steel has been demonstrated to be compatible with the various types of solvents and solvent mixtures that are received at the facility (see Table VI-2). In general, carbon or stainless steel is the material of choice for the handling and storage of organic compounds. Although several solvents have specific gravities of less than 1.0, the specific gravities of certain halogenated solvents may range up to 1.5. Tank design and corrosion allowance calculations were based on an expected maximum waste specific gravity of 1.5. Based on OMEGA's and the design engineer's prior experience, the proposed tanks have an expected life of approximately 20 years.

Each storage/treatment tank will have a pressure relief valve which vents through an emissions control system to the atmosphere (see Figure VI-9 Proposed Specifications for 10,000 Gallon Tanks). The venting will allow the tanks to be operated at ambient or near ambient pressure. Each waste storage/treatment tank also will be equipped with an emergency 3-way relief valve to provide both pressure and vacuum relief in the event of failure of the primary relief valve. Electrical grounding for all new tanks and equipment will be incorporated in the plant electrical upgrade project.

All piping used for processing liquid and transferring finished products will be constructed of carbon or stainless steel with welded fittings and 150# rated flanges. The foundation for the tanks will be constructed by grading and compacting the subfoundation soil, installing steel reinforcing bars, and pouring a minimum of 6 inches of concrete to design specifications (see Appendix D.3). The foundation will be designed and constructed to support the weight of the tanks and their contents and in accordance with applicable seismic standards. .

Normal operations will provide for the use of smaller process feed pumps to transfer wastes between tanks or to pump wastes to the waste treatment units. Due to manifolding, the truck unloading pumps also can back up the process feed pumps. The same manifolding system will allow for tank recirculation.

Each waste storage/treatment tank will have a separate manifold waste feed and piping system. The waste will be pumped from the truck through a liquid waste filter and various valves into the waste storage/treatment tank. All valves will remain in the closed position unless waste transfer operations are taking place. Pressure indicators will be provided on either side of the portable filter to indicate when the filter should be taken out of operation for cleaning. There also will be a pressure indicator downstream from each transfer pump to monitor its operation. Bottom drain valves will enable the contents of each tank to be sampled or emptied into a vacuum truck, if necessary.

Each waste storage/treatment tank will have a level indicator with high and low level alarms. Approximately once a month, tank level indicators will be calibrated with manual measurements using a dipstick. There also will be a high level switch on each tank that will shut off all pumps to the tank.

Secondary containment will be provided for tank areas by means of below grade, sealed concrete foundations and concrete sidewalls. The foundation will be sloped to a trench that directs incident precipitation and waste leaks/spills to a blind sump in the containment area. Curbs and grading away from the containment areas will prevent run-on to the process area. The secondary containment capacity will meet applicable regulatory requirements, as demonstrated by the calculations included in Appendix O.

The waste storage/treatment tanks will be elevated by means of external support legs that are protected by a fire retardant covering. The elevation of the tanks will prevent their contact with standing liquids. The use of a concrete sealant material that is compatible with organic compounds and daily inspections of the containment area will ensure the system is impervious, free from significant cracks, and capable of containing any spills, leaks, or precipitation until they can be collected and removed.

C UNDERGROUND TANKS

No underground waste tanks are in operation at the facility, nor are any proposed as part of the facility upgrade. Therefore, the information requirements of this section are not applicable.

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TABLE VI-4

Proposed Storage/Treatment Tanks Omega Facility

| Tank I.D | Type | Volume (gal) | Material Handled | Purpose |
|-----------------|-------------|-------------------------|-------------------------|----------------|
| S7 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S8 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S9 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S10 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S11 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S12 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S13 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S14 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S15 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S16 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S17 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S18 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S19 | Vertical | 10,000 | Solvent/Fuel waste | Storage |
| S20 | Vertical | 750 | Solvent/Fuel waste | Storage |
| S21 | Vertical | 750 | Solvent/Fuel waste | Storage |
| S22 | Vertical | 750 | Solvent/Fuel waste | Storage |
| S23 | Vertical | 750 | Solvent/Fuel waste | Storage |
| S24 | Vertical | 500 | Solvent/Fuel waste | Storage |
| S25 | Vertical | 500 | Solvent/Fuel waste | Storage |
| S26 | Vertical | 500 | Solvent/Fuel waste | Storage |
| P1 | Vertical | 1,500 | Product/ waste | Storage |
| P2 | Vertical | 1,500 | Product/ waste | Storage |
| P3 | Vertical | 1,500 | Product/ waste | Storage |
| P4 | Vertical | 1,500 | Product/ waste | Storage |
| P5 | Vertical | 1,500 | Product/ waste | Storage |
| A27 | Vertical | 8,000 | Aqueous waste | Storage |
| A28 | Vertical | 8,000 | Aqueous waste | Storage |
| A29 | Vertical | 8,000 | Aqueous waste | Storage |
| A30 | Vertical | 8,000 | Aqueous waste | Storage |
| A31 | Vertical | 8,000 | Aqueous waste | Storage |
| A32 | Vertical | 8,000 | Aqueous waste | Storage |
| A33 | Vertical | 8,000 | Aqueous waste | Storage |
| A34 | Vertical | 8,000 | Aqueous waste | Storage |
| A35 | Vertical | 8,000 | Aqueous waste | Storage |
| A36 | Vertical | 8,000 | Aqueous waste | Storage |

Table VI-4A

Waste Characteristics For Storage Tanks

Tank(s) 7 to 19 Waste Description

This tanks are designated for wastes which are ignitable (Flashpoint < 140 F.), halogenated and non-halogenated solvents, organic compounds, and aqueous wastes with organic compounds. The specific wastes included in this category are listed below:

Characteristic Wastes

D001, D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D028, D029, D035, D037, D038, D039, D040, D043

Wastes From Non-Specific Sources

F001, F002, F003, F004, F005, F024

Wastes From Specific Sources

K001, K009, K010 - K030, K032 - K043, K060, K073, K083,
K085, K086, K093 - K099, K103 - K105

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

P004, P022, P037, P048, P050, P051, P059, U001-U004, U007 -
U009, U019, U020, U024 - U028, U030 - U032, U034, U036,
U037, U040, U042, U044, U045, U047 - U049, U051, U052, U054
U058, U060, U061, U068 - U072, U075 - U084, U088, U101, U104,
U105, U107, U108, U110 - U113, U115, U117, U118, U121 - U125,
U127, U129 - U132, U139, U140, U147, U149, U150, U154, U155,
U159, U161, U162, U165, U169, U170, U181, U182, U187, U188,
U190, U196, U210, U202, U207, U208, U209 - U213, U219 - U221,
U224, U234, U239, U240, U244, U257

Tank(s) 27 to 31 Waste Description

These tanks are designated for wastes with a pH < 7.0. These wastes included acids of various concentrations and mixtures such as sulfuric, nitric, hydrochloric, hydrofluoric, and chromic acids, generated by various industrial processes. These mixtures may often contain heavy metals. The specific waste categories are listed below:

Acidic waste which may be corrosive in nature (pH less than or equal to two (2)). Typical examples include waste sulfuric acid (25% max.) and waste hydrochloric acid (18% max.). The wastes may be toxic but will not be ignitable.

Characteristic wastes

D002, D004 - D011

Wastes from Non-Specific Sources

F006 - F012, F019

Wastes From Specific Sources

K002 - K008, K031, K046, K048 - K052, K061, K062, K069, K071, K084, K086, K100 - K102, K106

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

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P011, P012, U144 - U146, U246

Table VI-4A (continued)

Waste Characteristics For Storage Tanks

Tank(s) 32 to 36
Waste Description

This area is designated for wastes with a pH > 7.0. These materials include hydroxides of calcium, aluminum, sodium, potassium, etc., precipitated metal hydroxides, sludges, and aqueous materials containing cyanide, sulfide, and ammonia and aqueous wastes which, because of their pH, would contain unprecipitated heavy metals. The specific wastes to be stored in this area are listed below:

Alkaline aqueous waste. Small amounts of metals and organic compounds may be present. The pH of the waste will be between seven (7) and 14.

Characteristic wastes

D002, D004 - D011

Wastes from Non-Specific Sources

F006 -F012,F019

Wastes From Specific Sources

K002 - K008, K031, K046,K048 - K052, K061, K062, K069,K071,K084, K086,
K100 - K102, K106

Discarded Chemical Products, Off-Specification Materials, and Spill Residues

P011, P012, U144 - U146, U246

PROP-C-Controlled/Proprietary



PROP-C-Controlled/Proprietary

PROP-C-Controlled/Proprietary



PROP-C-Controlled/Proprietary

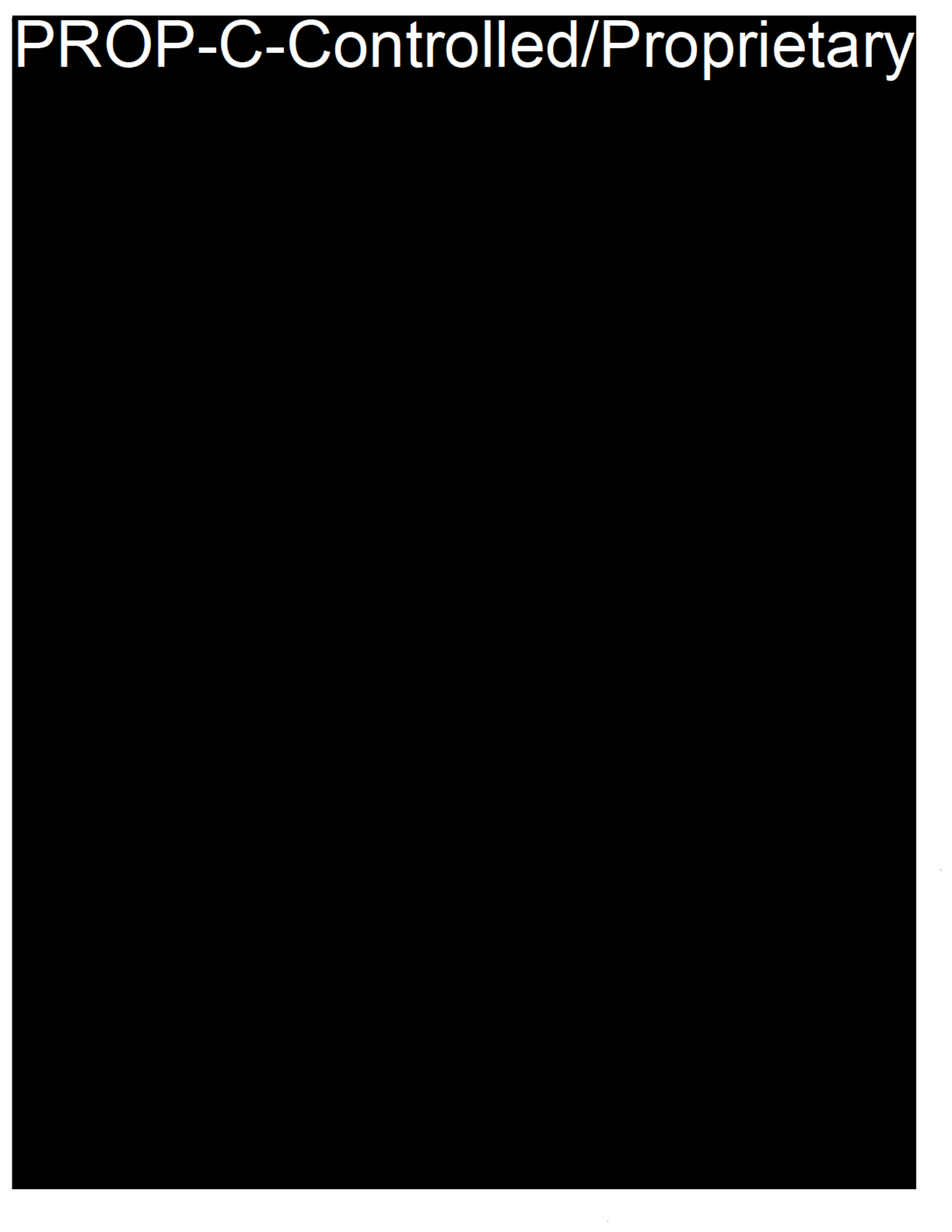


PROP-C-Controlled/Proprietary



PROP-C-Controlled/Proprietary





PROP-C-Controlled/Proprietary

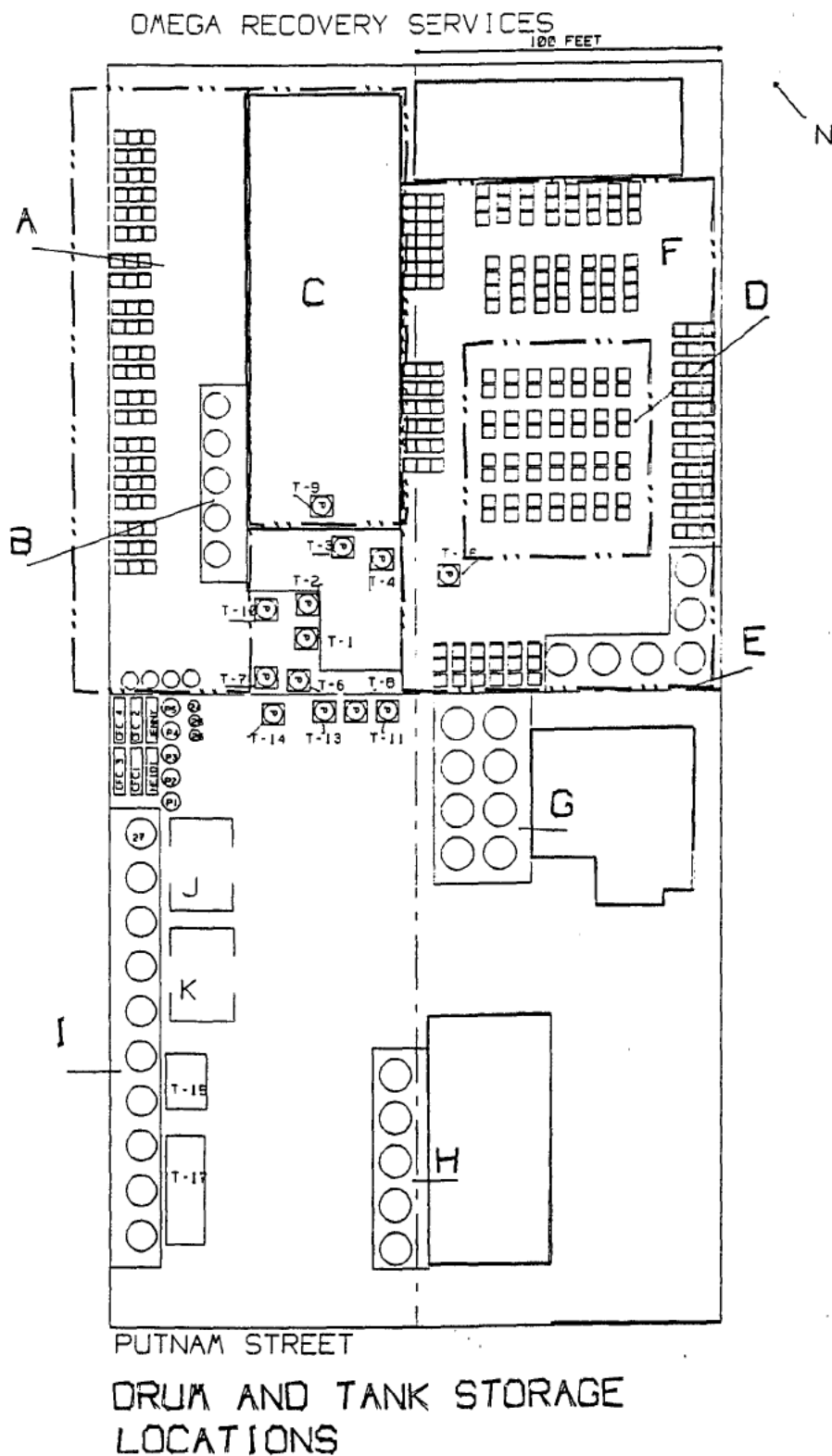
PROP-C-Controlled/Proprietary



PROP-C-Controlled/Proprietary



FIGURE VI-2



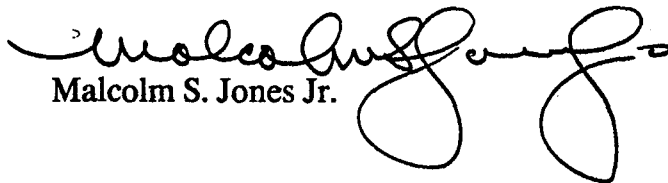
100 FEET



FIGURE VI-3 Proposed New Drum Storage Areas

Figure VI-4 Certification of Compliance for Container Storage Areas

The design and construction of the container storage areas, appurtenant structures, and containers located at Omega Recovery Services, 12504 E. Whittier Blvd, Whittier, California 90602, EPA ID# CAD042245001 are certified to be in compliance with the California Department of Health Services regulations for the intended uses.


Malcolm S. Jones Jr.

Registration No. C022725

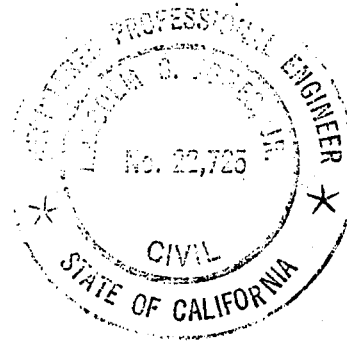
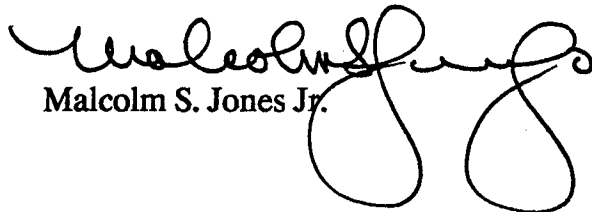


Figure VI-4A Certification of Compliance for Proposed Container Storage Areas

The design and construction of the proposed container storage areas, appurtenant structures, and containers located at Omega Recovery Services, 12504 E. Whittier Blvd, Whittier, California 90602, EPA ID# CAD042245001 are certified to be in compliance with the California Department of Health Services regulations for the intended uses.


Malcolm S. Jones Jr.

Registration No. C022725

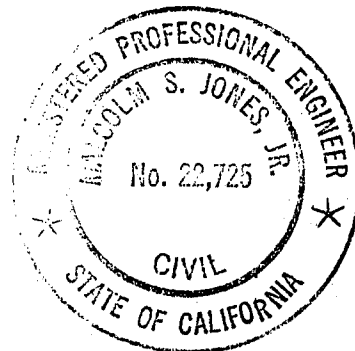
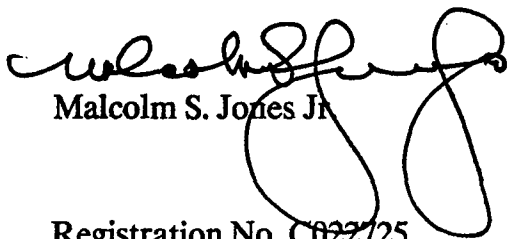


Figure VI-5 Los Angeles County Fire Department Storage Requirements

Because these are published rules in the Fire Code you are referred to Figure XI-2 Los Angeles County Hazardous Materials Permit Plan which details the plan submitted to the LACFD for the storage and of hazardous material.

Figure VI-6 Certification of Compliance for Tank Storage Areas

The design and construction of the tank storage areas, appurtenant structures located at Omega Recovery Services, 12504 E. Whittier Blvd, Whittier, California 90602, EPA ID# CAD042245001 are certified to be in compliance with the California Department of Health Services regulations for the intended uses.


Malcolm S. Jones Jr.

Registration No. C022725

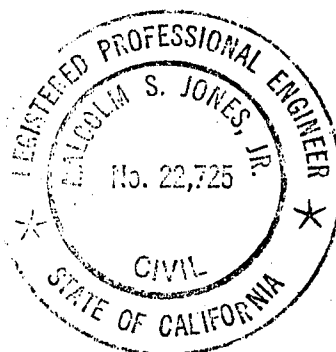
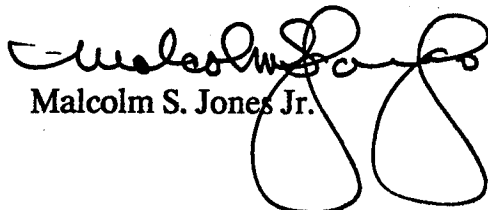


Figure VI-6A Certification of Compliance for Proposed Tank Storage Areas

The design and construction of the proposed tank storage areas, appurtenant structures located at Omega Recovery Services, 12504 E. Whittier Blvd, Whittier, California 90602, EPA ID# CAD042245001 are certified to be in compliance with the California Department of Health Services regulations for the intended uses.


Malcolm S. Jones Jr.

Registration No. C022725

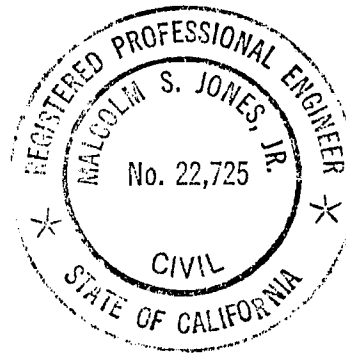


FIGURE VI-7
Drawing of Existing 5,000 Gallon Tanks

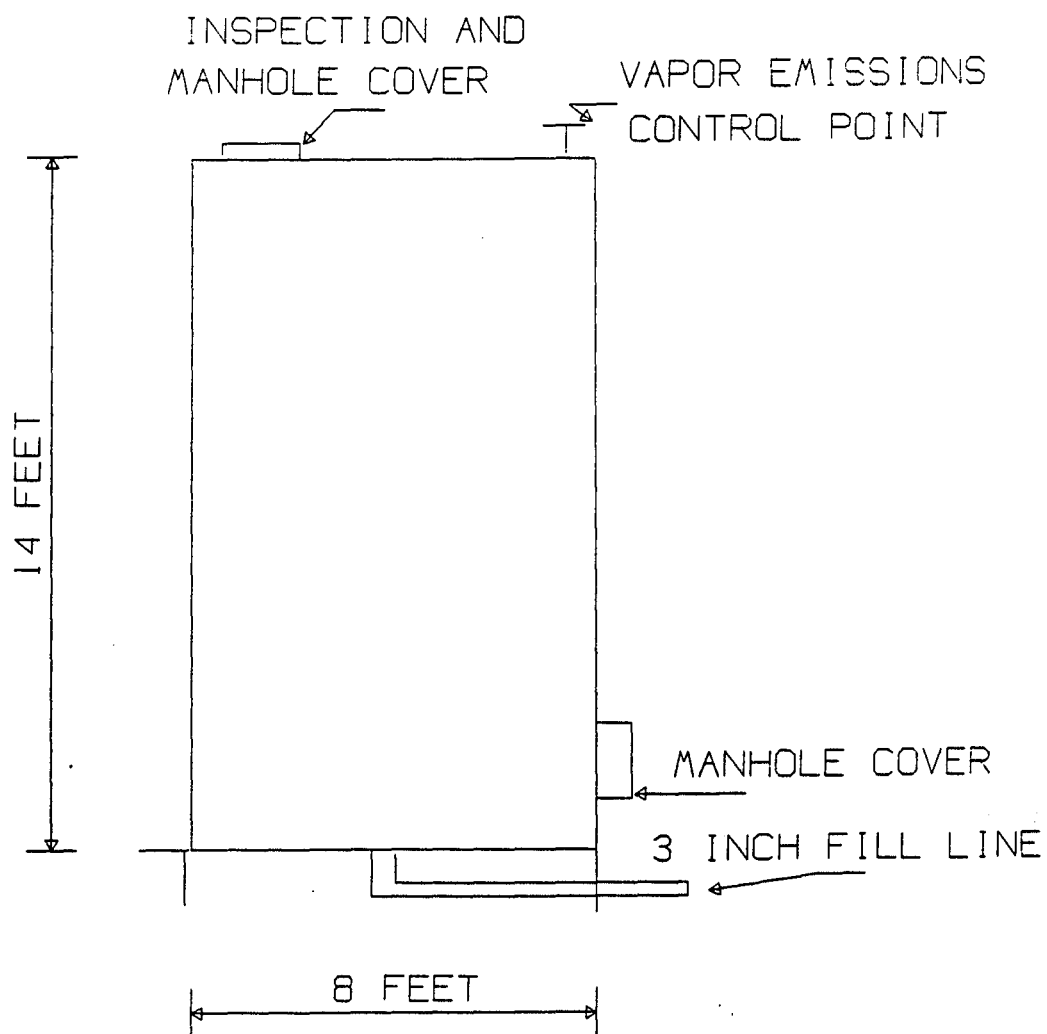


Figure VI-8 Specifications for 10,000 gallon tank shown on Figure VI-9

FIGURE VI-9
Drawing of Existing and Proposed 10,000 Gallon Tanks for Organic Solvents

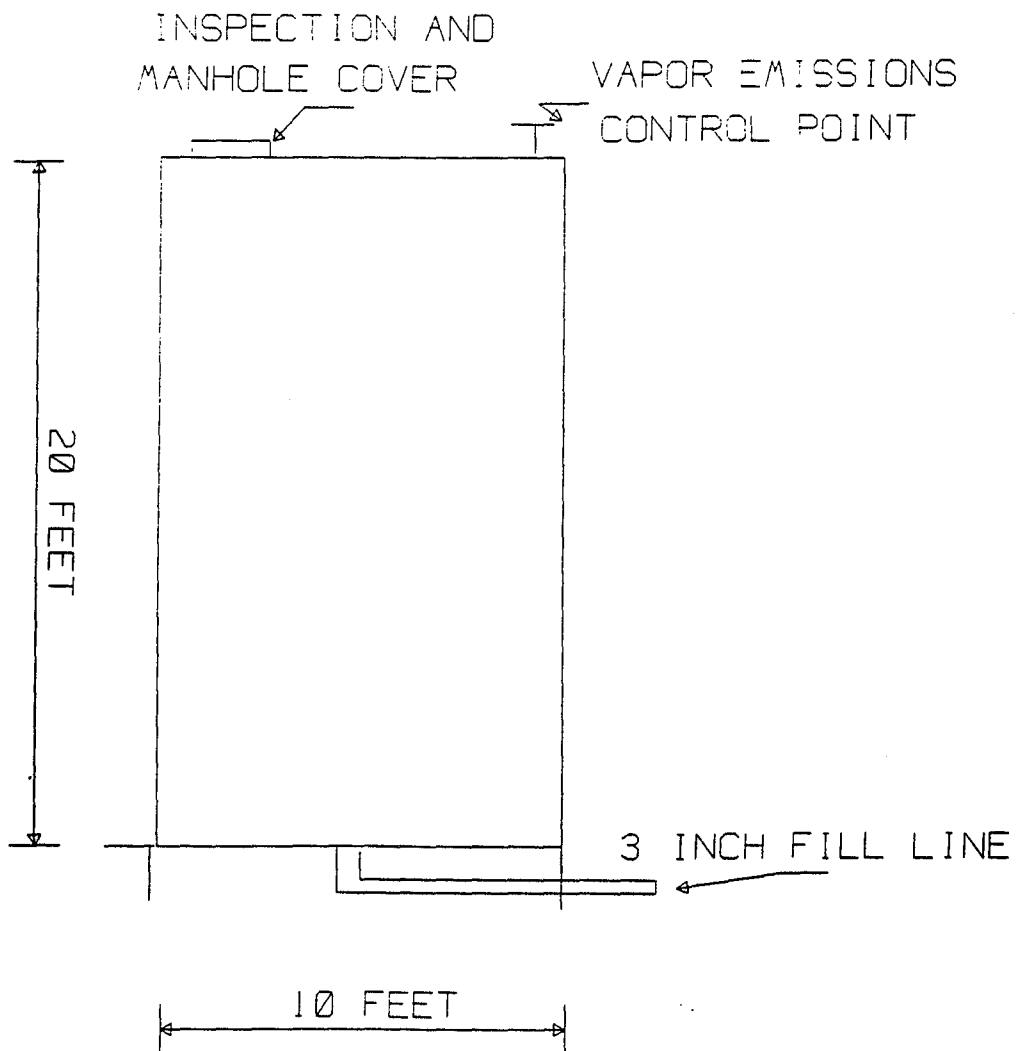


Figure VI-10 [Reserved for Future Use]

PROP-C-Controlled/Proprietary



PROP-C-Controlled/Proprietary



FIGURE VI-14
Schematic Drawing of Jake Wiped Film Evaporator

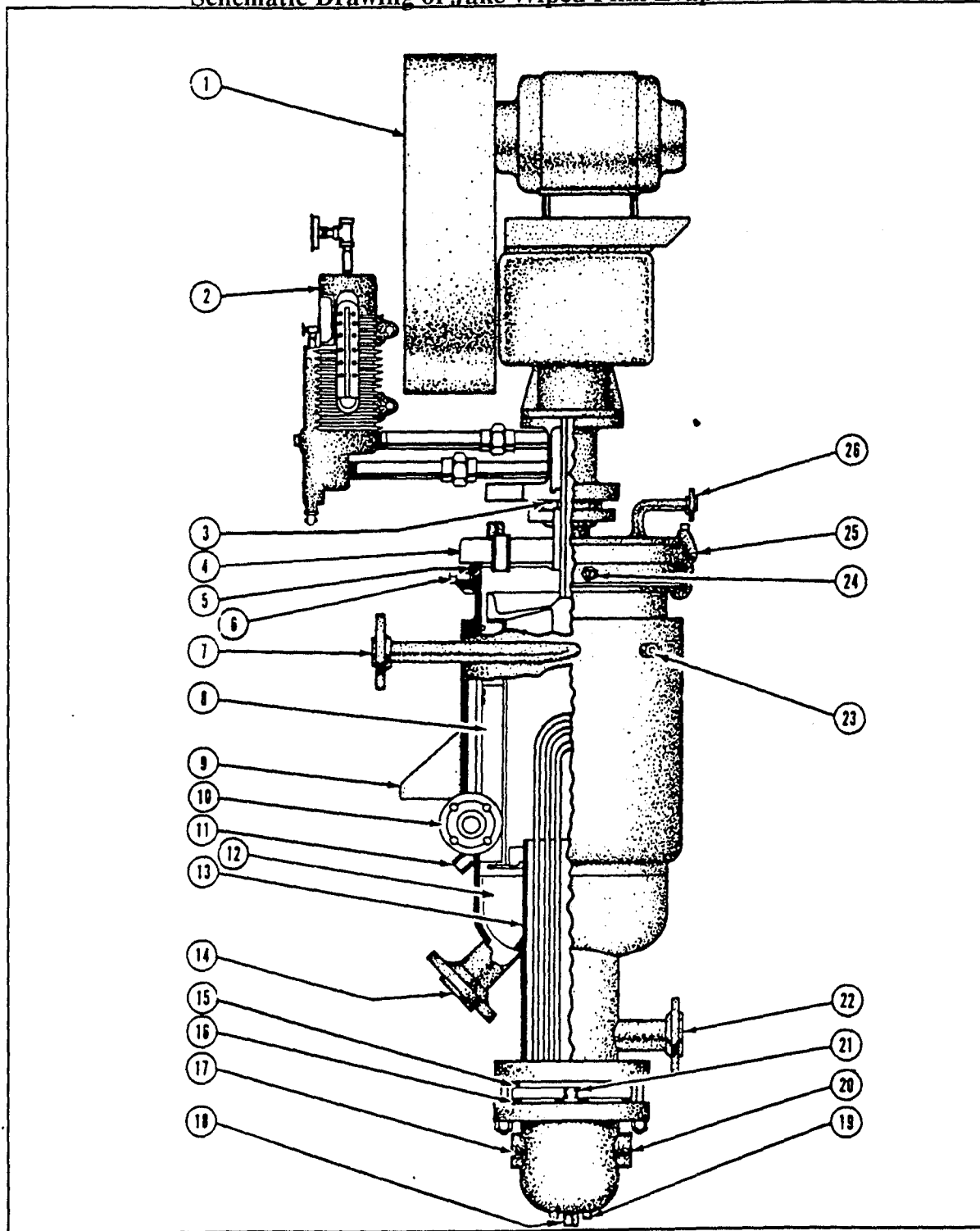
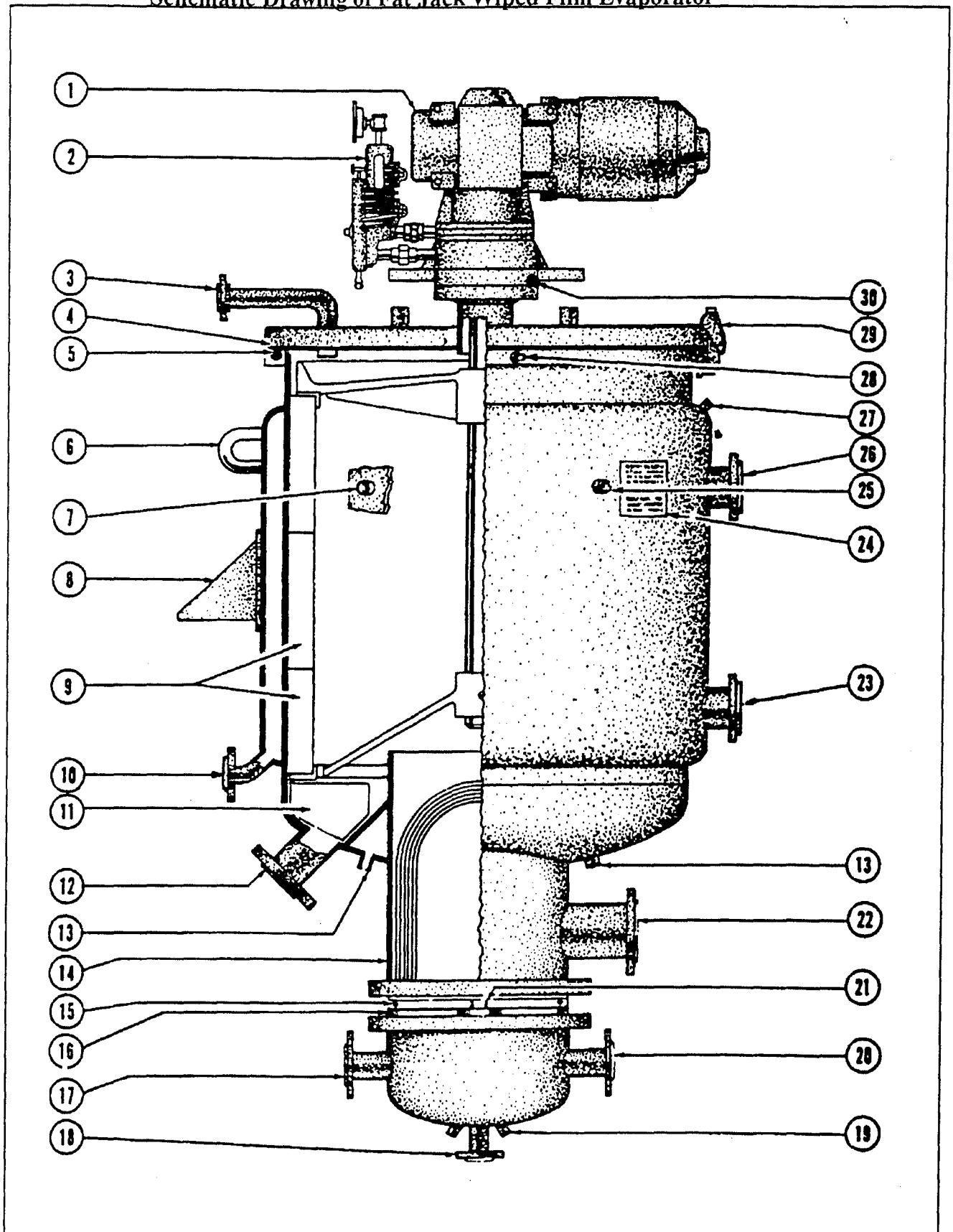


FIGURE VI-14 A
Schematic Drawing of Fat Jack Wiped Film Evaporator



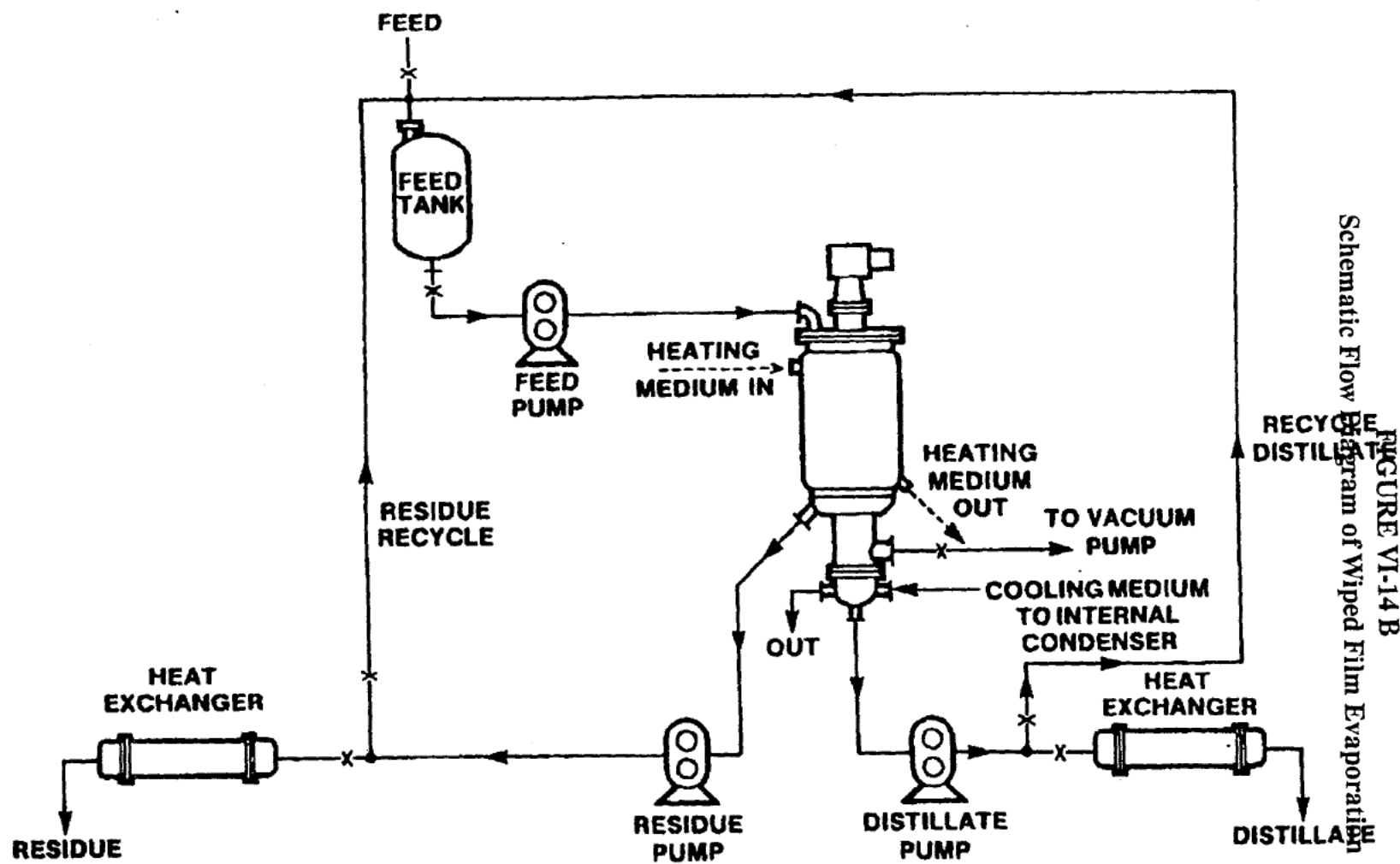


FIGURE VI-14 B
Schematic Flow Diagram of Wiped Film Evaporation

OMEGA CHEMICAL CRPORATION
OMEGA RECOVERY SERVICE
12504 E WHITTIER BOULEVARD
WHITTIER CA 90602

-Jasi & Dold Ths.
-Johnson & Higgins
-National Continental
-Star Technical Risks

San Francisco Paralegal Association
www.sfpa.com

Insurance
Policies
1990-1991

ISI 0047

| Batch | Rep | Cur Date | Run Seq |
|--------|-----|----------|---------|
| F64542 | E | 91239 | 140 |

| End | Last Run | Eff Date | Pages |
|-----|----------|----------|-------|
| 009 | 91225 | 04/11/91 | 2745 |

| Yr | INSURED |
|----|---------|
| 90 | |

PMD

DECLARATIONS FOR A BUSINESS AUTO

Page

3

AMENDED

04/11/91

Policy No:

CP 4506889 0

ITEM ONE

Named Insured and Address

Producer Name and Address

OMEGA CHEMICAL CRPORATION

JOSI & DOLD INSURANCE SVC

OMEGA RECOVERY SERVICE

12504 E WHITTIER BOULEVARD

P O BOX 22733

WHITTIER

CA 90602

LONG BEACH

CA 90801

Producer Code:

.050

Broker: 953866607

Q646000

PREV POLICY NO: 0898962-9

Report Basis: ANNUAL

Policy Period: From 09/24/90 to 09/24/91 at 12:01 A.M. Standard Time at your mailing address shown above.

Insured Company and Code: 022

NATIONAL CONTINENTAL

Named Insured's Business: SOLVENT RECYCLER

Form of Business: CORPORATION

ADDITIONAL PREMIUM

\$0

IN RETURN FOR THE PAYMENT OF THE PREMIUM, AND SUBJECT TO ALL THE TERMS OF THIS POLICY, WE AGREE WITH YOU TO PROVIDE THE INSURANCE AS STATED IN THIS POLICY

ITEM TWO

SCHEDULE OF COVERAGES AND COVERED AUTOS

This policy provides only those coverages where a charge is shown in the premium column on the covered autos schedule. Each of these coverages will apply only to those "autos" shown as covered "autos." "Autos" are shown as covered "autos" for a particular coverage by the entry of one or more symbols from the COVERED AUTO Section of the Business Auto Coverage Form next to the name of the coverage.

| COVERAGES | COVERED AUTOS (Entry of one or more of the symbols from the COVERED AUTOS Section of the Business Auto Coverage Form shows which autos are covered autos) | LIMIT THE MOST WE WILL PAY FOR ANY ONE ACCIDENT OR LOSS |
|---|--|---|
| LIABILITY | 1 | 1,000,000 CSL |
| PERSONAL INJURY PROTECTION (or equivalent No-fault coverage) | | Separately stated in each PIP endorsement |
| ADDED PERSONAL INJURY PROTECTION (or equivalent added No-fault coverage) | | Separately stated in each added PIP endorsement |
| PROPERTY PROTECTION INSURANCE (Michigan only) | | Separately stated in the P.P.I. endorsement |
| AUTO MEDICAL PAYMENTS | | |
| UNINSURED MOTORISTS | 7 | 30,000 PER PERSON 60,000 PER ACCIDENT |
| UNDERINSURED MOTORISTS (When not included in Uninsured Motorists Coverage) | | |
| PHYSICAL DAMAGE COMPREHENSIVE COVERAGE | | ACTUAL CASH VALUE OR COST OF REPAIR, WHICHEVER IS LESS MINUS \$ Ded. FOR EACH COVERED AUTO. BUT NO DEDUCTIBLE APPLIES TO LOSS CAUSED BY FIRE OR LIGHTNING. See ITEM FOUR for hired or borrowed "autos." |
| PHYSICAL DAMAGE SPECIFIED CAUSES OF LOSS COVERAGE | | ACTUAL CASH VALUE OR COST OF REPAIR, WHICHEVER IS LESS MINUS \$ 25. Ded. FOR EACH COVERED AUTO FOR LOSS CAUSED BY MISCHIEF OR VANDALISM. See ITEM FOUR for hired or borrowed "autos." |
| PHYSICAL DAMAGE COLLISION COVERAGE | | ACTUAL CASH VALUE OR COST OF REPAIR, WHICHEVER IS LESS MINUS \$ Ded. FOR EACH COVERED AUTO. See ITEM FOUR for hired or borrowed "autos." |
| PHYSICAL DAMAGE TOWING AND LABOR (Not available in California) | | \$ for each disablement of a private passenger auto. |

082391 ADDED CERT OF INS #4 XEROX

CA 00 03 01 87.

Batch Rep Cur Date Run Seq
F64542 E 91239 140

End Last Run Eff Date Pages
009 91225 04/11/91 2746

Yr INSURED
90

PMD

FORMS AND ENDORSEMENTS CONTAINED IN THIS POLICY AT ITS INCEPTION: SEE SCHEDULE ATTACHED

FILINGS

HEALTH SERVICES FILING

PL/PD INSURANCE CERTIFICATE

PL/PD HAZARDOUS MATERIALS INSURANCE CERTIFICATE

OTHER CHARGES INCLUDED WITH POLICY TOTAL PREMIUM

CA. ASSESSMENT \$.00

COUNTERSIGNED 09/24/90 BY

Donald S. Howey

DECLARATIONS FOR A BUSINESS AUTO

Page

5

AMENDED

04/11/91

Policy No:

CP 4506889 0

ITEM THREE

SCHEDULE OF COVERED AUTOS

VEHICLE INFORMATION

| Auto No. | Identification Description | Tax Code | Indv | Class Code | Exp | Pro/Short Rate | Cost/Symbol | Point % or \$ Chrg | State/Terr | Age |
|----------|--|----------|------|------------|-------|----------------|-------------|--------------------|------------|-----|
| 1 | 81 CHEVROLET PICK-UP 1GCGC24M9BZ116603 | | | 034500 | 0.584 | 1.000 | | | CA | 6 |
| 2 | 84 INTERNATIONAL TRACTR 1HSLRUGN1EHA66152 | | | 505500 | 0.584 | 1.000 | | | CA | 6 |
| 3 | 82 MERCEDES BENZ 380SLC WDBBA45A7CB018243 | | | 739800 | 0.584 | 1.000 | | | CA | 6 |
| | | | | | | | | | 004 | |

OTHER VEHICLE INFORMATION

| Auto No. | Miscellaneous | CB Value | Discounts | C.O.H. Base | Veh Del | | |
|----------|---------------|----------|-----------|-------------|---------|--|--|
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |

LIABILITY LIMITS
IN THOUSANDS

| Auto No. | Bodily Injury | | PD | Uninsured Motorists | | UMPD | Underinsured Motorists | | UNPD | Addl PIP | PIP * Val | PD Ded | Med Ded | Med Pay * Val |
|----------|---------------|----------|----|---------------------|----------|------|------------------------|----------|------|----------|--------------|--------|---------|------------------|
| | Each Per | Each Acc | | Each Per | Each Acc | | Each Per | Each Acc | | | | | | |
| 1 | CSL | 1000 | | 30 | 60 | | | | | | | | | |
| 2 | CSL | 1000 | | 30 | 60 | | | | | | | | | |
| 3 | CSL | 1000 | | 30 | 60 | | | | | | | | | 1000 |

* Denotes Coverage In Actual Dollar Value

PHYSICAL DAMAGE LIMITS

| Auto No. | Comp | Spec Peril | Coll | Glass | | | | | | | | | Maxim Allow |
|----------|------|------------|------|-------|--|--|--|--|--|--|--|--|-------------|
| 1 | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |

PREMIUMS

| Auto No. | BI | PD | Med Pay | PIP | Addl PIP | Uninsured Motorists | UMPD | Under-insured | UNPD | | Pedest Pip | RMEC Liab |
|----------|----|----|---------|-----|----------|---------------------|------|---------------|------|--|------------|-----------|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |

PREMIUMS

| Auto No. | Comp | Collision | Specified Perils | Sound Equip | Loss of Use | RMEC Comp | RMEC Coll | | | | | |
|----------|------|-----------|------------------|-------------|-------------|-----------|-----------|--|--|--|--|--|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |

STAT CODES

| Auto No. | BI | PD | Med Pay | PIP | Addl PIP | UM | State Excep | Comp | Spec Perils | Coll | Pip Ded | Sound Equip | Loss Use | | | | | |
|----------|----|----|---------|-----|----------|----|-------------|------|-------------|------|---------|-------------|----------|--|--|--|--|--|
| 1 | 18 | | | | | 04 | | | | | | | | | | | | |
| 2 | 18 | | | | | 04 | | | | | | | | | | | | |
| 3 | 18 | | 03 | | | 04 | | | | | | | | | | | | |

CA 00 03 01 87

Batch Rep Cur Date Run Seq
F64542 E 91239 140End Last Run Eff Date Pages
009 91225 04/11/91 2748Yr INSURED
90

PMD

AMENDED

04/11/91

Policy No:

CP 4506889 0

ITEM THREE

SCHEDULE OF COVERED AUTOS

VEHICLE INFORMATION

| Auto No. | Identification Description | Tax Code | Indv | Class Code | Exp | Pro/Short Rate | Cost/Symbol | Point % or \$ Chrg | State/Terr | Age |
|----------|----------------------------|----------|------|------------|-------|----------------|-------------|--------------------|------------|-----|
| 4 | 88 MERCEDES BENZ 190E | | | 739800 | 0.584 | 1.000 | | | CA | 3 |
| 5 | WDBDAZ8D6JF456891 | | | 675500 | 0.584 | 1.000 | | | 008 | 6 |
| 6 | 84 UTILITY SEMI TRAILER | | | 505500 | 0.584 | .586 | | | CA | 2 |
| | 1UYFS128XFC231302 | | | | | | | | 005 | |
| | 89 INTERNATIONAL TRACTR | | | | | | | | CA | |
| | 1HSZBG2R7KH667295 | | | | | | | | 005 | |

OTHER VEHICLE INFORMATION

| Auto No. | Miscellaneous | CB Value | Discounts | C.O.H. Base | Veh Del | | |
|----------|---------------|----------|-----------|-------------|---------|--|--|
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |

LIABILITY LIMITS
IN THOUSANDS

| Auto No. | Bodily Injury | | PD | Uninsured Motorists | | UMPD | Underinsured Motorists | | UNPD | Addl PIP | PIP \$ Val | PD Ded | Med Ded | Med Pay \$ Val |
|----------|---------------|----------|----|---------------------|----------|------|------------------------|----------|------|----------|---------------|--------|---------|-------------------|
| | Each Per | Each Acc | | Each Per | Each Acc | | Each Per | Each Acc | | | | | | |
| 4 | CSL | 1000 | | 30 | 60 | | | | | | | | | 1000 |
| 5 | CSL | 1000 | | | | | | | | | | | | |
| 6 | CSL | 1000 | | 30 | 60 | | | | | | | | | |

* Denotes Coverage In Actual Dollar Value

PHYSICAL DAMAGE LIMITS

| Auto No. | Comp | Spec Peril | Coll | Glass | | | | | | | | Maxim Allow |
|----------|------|------------|------|-------|--|--|--|--|--|--|--|-------------|
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |

PREMIUMS

| Auto No. | BI | PD | Med Pay | PIP | Addl PIP | Uninsured Motorists | UMPD | Under-insured | UNPD | | Pedest Pip | RMEC Liab |
|----------|----|----|---------|-----|----------|---------------------|------|---------------|------|--|------------|-----------|
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |

PREMIUMS

| Auto No. | Comp | Collision | Specified Perils | Sound Equip | Loss of Use | RMEC Comp | RMEC Coll | | | | | |
|----------|------|-----------|------------------|-------------|-------------|-----------|-----------|--|--|--|--|--|
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |

STAT CODES

| Auto No. | BI | PD | Med Pay | PIP | Addl PIP | UM | State Excep | Comp | Spec Perils | Coll | Pip Ded | Sound Equip | Loss Use | | | | | |
|----------|----|----|---------|-----|----------|----|-------------|------|-------------|------|---------|-------------|----------|--|--|--|--|--|
| 4 | 18 | | 03 | | | 04 | | | | | | | | | | | | |
| 5 | 18 | | | | | | | | | | | | | | | | | |
| 6 | 18 | | | | | 04 | | | | | | | | | | | | |

AMENDED

04/11/91

Policy No:

CP 4506889 0

ITEM THREE

SCHEDULE OF COVERED AUTOS

VEHICLE INFORMATION

| Auto No. | Identification Description | Tax Code | Indv | Class Code | Exp | Pro/Short Rate | Cost/Symbol | Point % or \$ Chrg | State/Terr | Age |
|----------|---|----------|------|------------|-------|----------------|-------------|--------------------|------------|-----|
| 7 | 88 TRAILMOBILE TRAILER 1PTW71UJ1J9008443 | | | 675500 | 0.584 | .586 | | | CA | 3 |
| 8 | 89 TOYOTA CAMRY JT2SV21E6K3395389 | | | 739800 | 0.584 | .586 | | | CA | 2 |
| 9 | 42 ENGCP TRAILER DR972353T | | | 675500 | 0.584 | 1.000 | | | CA | 6 |

OTHER VEHICLE INFORMATION

| Auto No. | Miscellaneous | CB Value | Discounts | C.O.H. Base | Veh Del | | |
|----------|---------------|----------|-----------|-------------|---------|--|--|
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |

LIABILITY LIMITS
IN THOUSANDS

| Auto No. | Bodily Injury | | PD | Uninsured Motorists | | UMPD | Underinsured Motorists | | UNPD | Addl PIP | PIP * Val | PD Ded | Med Ded | Med Pay * Val |
|----------|---------------|----------|----|---------------------|----------|------|------------------------|----------|------|----------|-----------|--------|---------|---------------|
| | Each Per | Each Acc | | Each Per | Each Acc | | Each Per | Each Acc | | | | | | |
| 7 | CSL | 1000 | | | | | | | | | | | | |
| 8 | CSL | 1000 | | 30 | 60 | | | | | | | | | 1000 |
| 9 | CSL | 1000 | | | | | | | | | | | | |

* Denotes Coverage In Actual Dollar Value

PHYSICAL DAMAGE LIMITS

| Auto No. | Comp | Spec Peril | Coll | Glass | | | | | | | | | Maxim Allow |
|----------|------|------------|------|-------|--|--|--|--|--|--|--|--|-------------|
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |

PREMIUMS

| Auto No. | BI | PD | Med Pay | PIP | Addl PIP | Uninsured Motorists | UMPD | Under-insured | UNPD | | Pedest Pip | RMEC Liab |
|----------|----|----|---------|-----|----------|---------------------|------|---------------|------|--|------------|-----------|
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |

PREMIUMS

| Auto No. | Comp | Collision | Specified Perils | Sound Equip | Loss of Use | RMEC Comp | RMEC Coll | | | | | | |
|----------|------|-----------|------------------|-------------|-------------|-----------|-----------|--|--|--|--|--|--|
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |

STAT CODES

| Auto No. | BI | PD | Med Pay | PIP | Addl PIP | UM | State Excep | Comp | Spec Perils | Coll | Pip Ded | Sound Equip | Loss Use | | | | | |
|----------|----|----|---------|-----|----------|----|-------------|------|-------------|------|---------|-------------|----------|--|--|--|--|--|
| 7 | 18 | | | | | | | | | | | | | | | | | |
| 8 | 18 | | 03 | | | 04 | | | | | | | | | | | | |
| 9 | 18 | | | | | | | | | | | | | | | | | |

AMENDED

04/11/91

Policy No:

CP 4506889 0

ITEM THREE

SCHEDULE OF COVERED AUTOS

VEHICLE INFORMATION

| Auto No. | Identification Description | Tax Code | Indv | Class Code | Exp | Pro/Short Rate | Cost/Symbol | Point % or \$ Chrg | State/Terr | Age |
|----------|--|----------|------|------------|-------|----------------|-------------|--------------------|------------|-----|
| 10 | 85 FREIGHTLINER TRACTOR 1FUYYCYB0GP272612 | | | 505500 | 0.584 | 1.000 | | | CA 005 | 6 |

OTHER VEHICLE INFORMATION

| Auto No. | Miscellaneous | CB Value | Discounts | C.O.H. Base | Veh Del | | |
|----------|---------------|----------|-----------|-------------|---------|--|--|
| 10 | | | | | | | |

LIABILITY LIMITS
IN THOUSANDS

| Auto No. | Bodily Injury | | PD | Uninsured Motorists | | UMPD | Underinsured Motorists | | UNPD | Addl PIP | PIP * \$ Val | PD Ded | Med Ded | Med Pay * \$ Val |
|----------|---------------|----------|----|---------------------|----------|------|------------------------|----------|------|----------|-----------------|--------|---------|---------------------|
| | Each Per | Each Acc | | Each Per | Each Acc | | Each Per | Each Acc | | | | | | |
| 10 | CSL | 1000 | | 30 | 60 | | | | | | | | | |

* Denotes Coverage In Actual Dollar Value

PHYSICAL DAMAGE LIMITS

| Auto No. | Comp | Spec Peril | Coll | Glass | | | | | | | | | Maxim Allow |
|----------|------|------------|------|-------|--|--|--|--|--|--|--|--|-------------|
| 10 | | | | | | | | | | | | | |

PREMIUMS

| Auto No. | BI | PD | Med Pay | PIP | Addl PIP | Uninsured Motorists | UMPD | Under-insured | UNPD | | Pedest Pip | RMEC Liab |
|----------|----|----|---------|-----|----------|---------------------|------|---------------|------|--|------------|-----------|
| 10 | | | | | | | | | | | | |

PREMIUMS

| Auto No. | Comp | Collision | Specified Perils | Sound Equip | Loss of Use | RMEC Comp | RMEC Coll | | | | | |
|----------|------|-----------|------------------|-------------|-------------|-----------|-----------|--|--|--|--|--|
| 10 | | | | | | | | | | | | |

STAT CODES

| Auto No | BI | PD | Med Pay | PIP | Addl PIP | UM | State Excep | Comp | Spec Perils | Coll | Pip Ded | Sound Equip | Loss Use | | | | |
|---------|----|----|---------|-----|----------|----|-------------|------|-------------|------|---------|-------------|----------|--|--|--|--|
| 10 | 18 | | | | | 04 | | | | | | | | | | | |

DECLARATIONS FOR A BUSINESS AUTO

Page

9

Policy No. CP 4506889 0

ITEM FOUR

SCHEDULE OF HIRED OR BORROWED COVERED AUTO COVERAGE AND PREMIUMS.

Liability Coverage - Rating Basis, Cost of Hire

| STATE | CLASS CODE | ESTIMATED COST OF HIRE FOR EACH STATE | RATE PER EACH \$100 COST OF HIRE | BI | PREMIUM PD | UM | UMPD |
|-------|------------|--|-------------------------------------|----|---------------|----|------|
| CA | 661100 | IF ANY | 1.11 | | | | |

Cost of hire means the total amount you incur for the hire of "autos" you don't own (not including "autos" you borrow or rent from your partners or employees or their family members). Cost of hire does not include charges for services performed by motor carriers of property or passengers.

ITEM FIVE

SCHEDULE FOR NON-OWNERSHIP LIABILITY

| Named Insured's Business | Class Code | Rating Basis | Number | BI | Premium PD | UM | UMPD |
|---------------------------------------|------------|------------------------|--------|----|---------------|----|------|
| Other than a Social Service Agency | 660100 | Number of Employees | 25 | | | | |
| Social Service Agency | | Employees | | | | | |

ITEM SIX

SCHEDULE FOR GROSS RECEIPTS OR MILEAGE BASIS - LIABILITY COVERAGE - PUBLIC AUTO OR LEASING RENTAL CONCERNS

| ESTIMATED YEARLY GROSS RECEIPTS | RATES Per \$100 of Gross Receipts | CLASS CODE | TOTAL PREM. | MINIMUM PREM. |
|------------------------------------|--------------------------------------|---------------|----------------|------------------|
| | | | | |

When used as a premium basis:

FOR PUBLIC AUTOS

Gross Receipts means the total amount to which you are entitled for transporting passengers, mail or merchandise during the policy period regardless of whether you or any other carrier originate the transportation. Gross Receipts does not include:

- A. Amounts you pay to railroads, steamship lines, airlines and other motor carriers operating under their own ICC or PUC permits.
- B. Advertising Revenue.
- C. Taxes which you collect as a separate item and remit directly to a governmental division.
- D. C.O.D. collections for cost of mail or merchandise including collection fees.

Mileage means the total live and dead mileage of all revenue producing units operated during the policy period.

FOR RENTAL OR LEASING CONCERNS

Gross receipts means the total amount to which you are entitled for the leasing or rental of "autos" during the policy period and includes taxes except those taxes which you collect as a separate item and remit directly to a governmental division.

Mileage means the total of all live and dead mileage developed by all the "autos" you leased or rented to others during the policy period.

STAT CODES

| Auto No | BI | PD | Med Pay | No Fault | Addl N-F | UM | State Exc | Comp | Spec Peril | Coll | Pip Ded | Sound Equip | Loss Use | | | | | | |
|------------|----------|----|------------|-------------|-------------|----|--------------|------|---------------|------|------------|----------------|-------------|--|--|--|--|--|--|
| HR EN | 18 18 | | | | | | | | | | | | | | | | | | |

CA 00 03 01 87

Batch Rep Cur Date Run Seq
F64542 E 91239 140End Last Run Eff Date Pages
009 91225 04/11/91 2752Yr INSURED
90

PMD

Policy No: CP 4506889 0

LOSS PAYEES NAMES AND ADDRESSES

Auto No. Any physical damage loss is payable to you and the loss payee named below as interests may appear at the time of the loss.

ADDITIONAL INSURED NAMES AND ADDRESSES

Auto No.

6 IDEALEASE INC
C/O WESTRUX INTERNATIONAL
5816 CORPORATE WAY
CYPRESS CA 90630

7 IDEALEASE INC
C/O WESTRUX INTERNATIONAL
5816 CORPORATE WAY
CYPRESS CA 90630

8 WELLS FARGO BANK
INSURANCE OFFICE
P O BOX 5012
EL TORO CA 92630

CERTIFICATE OF INSURANCE

Page

13

NATIONAL CONTINENTAL
RANCHO CORDOVA, CA 95741

To: CALIFORNIA DENTAL ASSOC
ATTN MS DEBI IRWIN
P O BOX 13749
SACRAMENTO

CA 95853

Date: 08/27/91

This is to certify that the company shown above has in force as of the date hereof the following policy or policies: CP 4506889 0

Policy Effective Date: 09/24/90
Policy Expiration Date: 09/24/91
AMENDED 04/11/91

Name and address of insured or employer:

OMEGA CHEMICAL CRPORATION OMEGA RECOVERY SERVICE
12504 E WHITTIER BOULEVARD WHITTIER

CA 90602

| KIND OF INSURANCE | POLICY NO. | | LIMITS OF LIABILITY |
|---|------------|--|--|
| Workers' Compensation | | | Statutory |
| Employers' Liability | | | Each Person Each Accident |
| Bodily Injury Liability Other than Automobiles* | | | Each Occurrence Aggregate Products and Completed Operations |
| Property Damage Liability Other than Automobiles* | | | Each Occurrence Aggregate Operations Aggregate Protective Aggregate Contractual Aggregate Products and Completed Operations |
| Automobiles: Bodily Injury Liability* | SEE ABOVE | | 1,000,000 CSL |
| Property Damage Liability* | | | Each Accident |
| Medical Payments | | | Each Person |
| Uninsured and/or Underinsured Motorist | SEE ABOVE | | PER PERSON 60,000 PER ACCIDENT |
| | | | |

*If comprehensive, so state.

This certificate of insurance neither affirmatively nor negatively amends, extends or alters the coverage afforded by the policy or policies shown above.

In event of any material change in or cancellation of the policy or policies, the company will make every effort to notify the addressee but undertakes no responsibility by reason of failure to do so.

Authorized representative:

ISI 0004

Batch Rep Cur Date Run Seq End Last Run Eff Date Pages
F64542 E 91239 140 009 91225 04/11/91 2754

Yr INSURED
90

PMD

CERTIFICATE OF INSURANCE

Page

14

NATIONAL CONTINENTAL
RANCHO CORDOVA, CA 95741

To: IDEALEASE INC
WESTRUX INTERNATIONAL INC
5816 CORPORATE WAY
CYPRESS

CA 90630

Date: 08/27/91

This is to certify that the company shown above has in force as of the date hereof the following policy or policies: CP 4506889 0

Policy Effective Date: 09/24/90
Policy Expiration Date: 09/24/91
AMENDED 04/11/91

Name and address of insured or employer:

OMEGA CHEMICAL CRPORATION OMEGA RECOVERY SERVICE
12504 E WHITTIER BOULEVARD WHITTIER

CA 90602

| KIND OF INSURANCE | POLICY NO. | | LIMITS OF LIABILITY |
|---|------------|--|--|
| Workers' Compensation | | | Statutory |
| Employers' Liability | | | Each Person Each Accident |
| Bodily Injury Liability Other than Automobiles* | | | Each Occurrence Aggregate Products and Completed Operations |
| Property Damage Liability Other than Automobiles* | | | Each Occurrence Aggregate Operations Aggregate Protective Aggregate Contractual Aggregate Products and Completed Operations |
| Automobiles: Bodily Injury Liability* | SEE ABOVE | | 1,000,000 CSL |
| Property Damage Liability* | | | Each Accident |
| Medical Payments | | | Each Person |
| Uninsured and/or Underinsured Motorist | SEE ABOVE | | PER PERSON 60,000 PER ACCIDENT |

*If comprehensive, so state.

This certificate of insurance neither affirmatively nor negatively amends, extends or alters the coverage afforded by the policy or policies shown above.

In event of any material change in or cancellation of the policy or policies, the company will make every effort to notify the addressee but undertakes no responsibility by reason of failure to do so.

Authorized representative:

ISI 0004

Batch Rep Cur Date Run Seq
F64542 E 91239 140

End Last Run Eff Date Pages
009 91225 04/11/91 2755

Yr INSURED
90

PMD

CERTIFICATE OF INSURANCE

Page

15

NATIONAL CONTINENTAL
RANCHO CORDOVA, CA 95741

To: WELLS FARGO BANK
INSURANCE OFFICE
P O BOX 5012
EL TORO

CA 92630

Date: 08/27/91

This is to certify that the company shown above has in force as of the date hereof the following policy or policies: CP 4506889 0

Policy Effective Date: 09/24/90
Policy Expiration Date: 09/24/91
AMENDED 04/11/91

Name and address of insured or employer:

OMEGA CHEMICAL CRPORATION OMEGA RECOVERY SERVICE
12504 E WHITTIER BOULEVARD WHITTIER

CA 90602

| KIND OF INSURANCE | POLICY NO. | | LIMITS OF LIABILITY |
|---|------------|--|--|
| Workers' Compensation | | | Statutory |
| Employers' Liability | | | Each Person Each Accident |
| Bodily Injury Liability Other than Automobiles* | | | Each Occurrence Aggregate Products and Completed Operations |
| Property Damage Liability Other than Automobiles* | | | Each Occurrence Aggregate Operations Aggregate Protective Aggregate Contractual Aggregate Products and Completed Operations |
| Automobiles: Bodily Injury Liability* | SEE ABOVE | | 1,000,000 CSL |
| Property Damage Liability* | | | Each Accident |
| Medical Payments | | | Each Person |
| Uninsured and/or Underinsured Motorist | SEE ABOVE | | PER PERSON 60,000 PER ACCIDENT |

*If comprehensive, so state.

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In event of any material change in or cancellation of the policy or policies, the company will make every effort to notify the addressee but undertakes no responsibility by reason of failure to do so.

Authorized representative:

ISI 0004

Batch Rep Cur Date Run Seq End Last Run Eff Date Pages
F64542 E 91239 140 009 91225 04/11/91 2756

Yr INSURED
90

PMD

CERTIFICATE OF INSURANCE

Page

16

NATIONAL CONTINENTAL
RANCHO CORDOVA, CA 95741

To: XEROX
ATTN KATHY HUNTER
250 N HALSTEAD STREET
PASADENA

CA 91109

Date: 08/27/91

This is to certify that the company shown above has in force as of the date hereof the following policy or policies: CP 4506889 0

Policy Effective Date: 09/24/90
Policy Expiration Date: 09/24/91
AMENDED 04/11/91

Name and address of insured or employer:

OMEGA CHEMICAL CRPORATION OMEGA RECOVERY SERVICE
12504 E WHITTIER BOULEVARD WHITTIER

CA 90602

| KIND OF INSURANCE | POLICY NO. | | LIMITS OF LIABILITY |
|---|------------|--|--|
| Workers' Compensation | | | Statutory |
| Employers' Liability | | | Each Person Each Accident |
| Bodily Injury Liability Other than Automobiles* | | | Each Occurrence Aggregate Products and Completed Operations |
| Property Damage Liability Other than Automobiles* | | | Each Occurrence Aggregate Operations Aggregate Protective Aggregate Contractual Aggregate Products and Completed Operations |
| Automobiles: Bodily Injury Liability* | SEE ABOVE | | 1,000,000 CSL |
| Property Damage Liability* | | | Each Accident |
| Medical Payments | | | Each Person |
| Uninsured and/or Underinsured Motorist | SEE ABOVE | | PER PERSON 60,000 PER ACCIDENT |
| | | | |

*If comprehensive, so state.

This certificate of insurance neither affirmatively nor negatively amends, extends or alters the coverage afforded by the policy or policies shown above.

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Authorized representative:

ISI 0004

Batch Rep Cur Date Run Seq End Last Run Eff Date Pages
F64542 E 91239 140 009 91225 04/11/91 2757

Yr INSURED
90

PMD

THIS ENDORSEMENT PAGE CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CA 20 01 01 87

ADDITIONAL INSURED -- LESSOR

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM
GARAGE COVERAGE FORM
TRUCKERS COVERAGE FORM

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

| | |
|-----------------------|------------------|
| Endorsement effective | |
| Named Insured | Countersigned by |

(Authorized Representative)

SCHEDULE

Insurance Company NATIONAL CONTINENTAL
Policy Number CP 4506889 0
Effective Date 09/24/90

Expiration date 09/24/91

Named Insured OMEGA CHEMICAL CRPORATION
OMEGA RECOVERY SERVICEAddress 12504 E WHITTIER BOULEVARD
WHITTIER CA 90602

Additional Insured (Lessor)

IDEALEASE INC
C/O WESTRUX INTERNATIONAL
5816 CORPORATE WAY
CYPRESS CA 90630

Designation or Description of Leased "Autos"

SEE SCHEDULE OF COVERED AUTOS

| Coverages | Limit of Insurance |
|--|---|
| Liability | \$ Each "Accident" |
| Personal Injury Protection (or equivalent no-fault coverage) | \$ As Stated in PIP Endorsement |
| Comprehensive | ACTUAL CASH VALUE OR COST OF REPAIR WHICHEVER IS LESS; MINUS: \$ For Each Covered "Auto" |
| Collision | ACTUAL CASH VALUE OR COST OF REPAIR WHICHEVER IS LESS; MINUS: \$ For Each Covered "Auto" |
| Specified Causes of Loss | ACTUAL CASH VALUE OR COST OF REPAIR WHICHEVER IS LESS; MINUS: \$ For Each Covered "Auto" |

THIS ENDORSEMENT PAGE CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CA 20 01 01 87

A. Any "leased auto" designated or described in the Schedule or in the Declarations will be considered a covered "auto" you own and not a covered "auto" you hire or borrow. For a covered "auto" that is a "leased auto" WHO IS AN INSURED is changed to include as an "insured" the lessor named in the Schedule or in the Declarations.

B. LOSS PAYABLE CLAUSE

1. We will pay you and the lessor named in this endorsement for "loss" to a "leased auto", as interest may appear.
2. The insurance covers the interest of the lessor unless the "loss" results from fraudulent acts or omissions on your part.
3. If we make any payment to the lessor, we will obtain his rights against any other party.

C. CANCELLATION

1. If we cancel the policy, we will mail notice to the lessor in accordance with the CANCELLATION Common Policy Condition.
2. If you cancel the policy, we will mail notice to the lessor.
3. Cancellation ends this agreement.

D. The lessor is not liable for payment of your premiums.

E. ADDITIONAL DEFINITION

The following is added to the DEFINITIONS Section:

"Leased auto" means an "auto" leased or rented to you including any substitute, replacement or extra "auto" needed to meet seasonal or other needs, under a lease or rental agreement that requires you to provide direct primary insurance for the lessor.

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Page 2 of 2

THIS ENDORSEMENT PAGE CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CA 20 01 01 87

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GARAGE COVERAGE FORM
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This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

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|-----------------------|------------------|
| Endorsement effective | |
| Named Insured | Countersigned by |

(Authorized Representative)

SCHEDULE

Insurance Company NATIONAL CONTINENTAL
Policy Number CP 4506889 0
Effective Date 09/24/90 Expiration date 09/24/91

Named Insured OMEGA CHEMICAL CRPORATION
OMEGA RECOVERY SERVICE

Address 12504 E WHITTIER BOULEVARD
WHITTIER CA 90602

Additional Insured (Lessor)

IDEALEASE INC
C/O WESTRUX INTERNATIONAL
5816 CORPORATE WAY
CYPRESS CA 90630

Designation or Description of Leased "Autos"

SEE SCHEDULE OF COVERED AUTOS

| Coverages | Limit of Insurance |
|--|---|
| Liability | \$ Each "Accident" |
| Personal Injury Protection (or equivalent no-fault coverage) | \$ As Stated in PIP Endorsement |
| Comprehensive | ACTUAL CASH VALUE OR COST OF REPAIR WHICHEVER IS LESS; MINUS: \$ For Each Covered "Auto" |
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Page 2 of 2

THIS ENDORSEMENT PAGE CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

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This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

| | |
|-----------------------|------------------|
| Endorsement effective | |
| Named Insured | Countersigned by |

(Authorized Representative)

SCHEDULE

Insurance Company NATIONAL CONTINENTAL
 Policy Number CP 4506889 0
 Effective Date 09/24/90 Expiration date 09/24/91

Named Insured OMEGA CHEMICAL CRPORATION
 OMEGA RECOVERY SERVICE

Address 12504 E WHITTIER BOULEVARD
 WHITTIER CA 90602

Additional Insured (Lessor)

WELLS FARGO BANK
 INSURANCE OFFICE
 P O BOX 5012
 EL TORO CA 92630

Designation or Description of Leased "Autos"

SEE SCHEDULE OF COVERED AUTOS

| Coverages | Limit of Insurance |
|--|---|
| Liability | \$ Each "Accident" |
| Personal Injury Protection (or equivalent no-fault coverage) | \$ As Stated in PIP Endorsement |
| Comprehensive | ACTUAL CASH VALUE OR COST OF REPAIR WHICHEVER IS LESS; MINUS: \$ For Each Covered "Auto" |
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B. LOSS PAYABLE CLAUSE

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Page 2 of 2

MAY 10 1991

AMENDED

04/11/91

POLICY NO:

CP 4506889 0

ITEM 1

NAMED INSURED AND ADDRESS

PRODUCER NAME AND ADDRESS

OMEGA CHEMICAL CORPORATION
OMEGA RECOVERY SERVICE
12504 E WHITTIER BOULEVARD
WHITTIER CA 90602

JOSI & DOLD INSURANCE SVCC
P O BOX 22733
LONG BEACH CA 90801

PRODUCER CODE:

.050

BROKER: 953866607

Q646000

POLICY PERIOD: FROM 9/24/90 TO 9/24/91 12:01 A.M. STANDARD TIME
(AT THE ADDRESS OF THE NAMED INSURED AS STATED IN THIS POLICY)

INSURED COMPANY AND CODE: 022

NATIONAL CONTINENTAL

NAMED INSURED BUSINESS: SOLVENT RECYCLER

FORM OF BUSINESS: CORPORATION

ADDITIONAL PREMIUM:

\$0

IN RETURN FOR THE PAYMENT OF THE PREMIUM, AND SUBJECT TO ALL THE TERMS OF THIS
POLICY, WE AGREE WITH YOU TO PROVIDE THE INSURANCE AS STATED IN THIS POLICY.

ITEM 2

SCHEDULE OF COVERAGES AND COVERED AUTOS

(SEE SUPPLEMENTARY STATE ENDORSEMENTS WHERE APPLICABLE)

LIABILITY INSURANCE

☒ COMBINED BODILY INJURY AND PROPERTY DAMAGE
☐ BODILY INJURY
☐ PROPERTY DAMAGE
☐ AUTO MEDICAL PAYMENTS
☒ UNINSURED MOTORISTS

DESIGNATED STATES: CA

| EACH PERSON | EACH ACCIDENT |
|-------------|---------------|
| XXXXXXXXXX | 1,000,000 |
| XXXXXXXXXX | XXXXXXXXXX |
| 30,000 | 60,000 |

COVERAGES

☒ LIABILITY INSURANCE

SYM

1

COVERED AUTO DESCRIPTION

ANY AUTO

☐ PERSONAL INJURY PROTECTION☐ AUTO MEDICAL PAYMENTS☒ UNINSURED MOTORIST INSURANCE

7

SPECIFICALLY DESCRIBED AUTOS

THESE DECLARATIONS ARE ISSUED IN CONJUNCTION WITH AND ARE PART OF POLICY
FORM (CA 00 01).
FILING: HEALTH SERVICES FILING

REPORT BASIS: ANNUAL

050391 ADDED TL 1000 & TL 1006 FILINGS EFF 041191

AMENDED

04/11/91

POLICY NO:

CP 4506889 0

| ITEM 3 SCHEDULE OF COVERED AUTOS | | | | | | | | | | |
|----------------------------------|---|---------------|-----------|------------|----------------|------------|---------|----------|----|--|
| VEHICLE INFORMATION | | | | | | | | | | |
| AUTO NO. | IDENTIFICATION DESCRIPTION | C.O.H. TAX CD | INDV ZEMP | CLASS CODE | EXP / P/S | COST / SYM | PNTS OR | ST / TER | AG | |
| 1 | 81 CHEVROLET PICK-UP 16CGC24M9BZ116603 | | | 034500 | 0.584 1.000 | | | CA 05 | 6 | |
| 2 | 84 INTERNATIONAL TRACTR 1HSLRUGN1EHA66152 | | | 505500 | 0.584 1.000 | | | CA 05 | 6 | |
| 3 | 82 MERCEDES BENZ 380SLC WDBBA45287CB018243 | | | 739800 | 0.584 1.000 | | | CA 04 | 6 | |

| OTHER VEHICLE INFORMATION | | | | | | | | | | |
|---------------------------|---------------|----------|-----------|------------|-------------|---------|--|--|--|--|
| AUTO NO. | MISCELLANEOUS | CB VALUE | DISCOUNTS | RADIO TAXI | C.O.H. EASE | VEH DEL | | | | |
| | | | | | | | | | | |

| LIABILITY LIMITS | | | | | | | | | | |
|------------------|---------------|----------|------------------------|---------------------|--------------|----------|-------------|--------|---------|---------|
| IN THOUSANDS | | | | | | | | | | |
| AUTO NO. | BODILY INJURY | PD | UNDER-INSURED MOTORIST | UNINSURED MOTORISTS | UNDER-INS PD | NO FAULT | ADCL NO FLT | PD DED | RED DED | RED PAY |
| | EACH PER | EACH OCC | EACH PER | EACH OCC | | | | | | |
| 1 | CSL | 1000 | | 30 60 | | | | | | |
| 2 | CSL | 1000 | | 30 60 | | | | | | |
| 3 | CSL | 1000 | | 30 60 | | | | | | 1000 |

| PREMIUMS | | | | | | | | | | |
|----------|----|----|---------|----------|------------|-------------|------|------------|---------|---------|
| AUTO NO. | BI | PD | RED PAY | NO FAULT | ADCL N FLT | UNINS MOTOR | UMPD | UNDR MOTOR | UNDR PD | RED PIP |
| | | | | | | | | | | |

| PREMIUMS | | | | | | | | | | |
|----------|------------|-------------|----------|--|--|--|--|--|--|--|
| AUTO NO. | SPEC PERIL | SOUND EQUIP | LOSS USE | | | | | | | |
| | | | | | | | | | | |

| STATUS CODES | | | | | | | | | | |
|--------------|----|----|---------|--------|----------|-----------|--------|---------|-----|---------|
| AUT NO. | BI | PD | RED PAY | NO FLT | ADCL N E | UNINS MOT | ST EXC | SPE PER | COL | PIP DED |
| 1 | 18 | | | | | 04 | | | | |
| 2 | 18 | | | | | 04 | | | | |
| 3 | 18 | | 03 | | | 04 | | | | |

AMENDED

04/11/91

POLICY NO:

CP 4506889 G

ITEM 3

SCHEDULE OF COVERED AUTOS

| VEHICLE INFORMATION | | | | | | | | | | |
|---------------------|--|------------|---------|------------|----------------|------------|---------|----------|----|--|
| AUTO NO. | IDENTIFICATION DESCRIPTION | C.O.H. TAX | INDV CD | CLASS CODE | EXP / P/S | CCST / SYM | PATZ BR | ST/TER | AG | |
| 4 | 88 MERCEDES BENZ 190E WDBDAZ806JF456891 | | | 739800 | 0.584 1.000 | | | CA 08 | 3 | |
| 5 | 84 UTILITY SEMI TRAILER 1UYFS128XFC231302 | | | 675500 | 0.584 1.000 | | | CA 05 | 6 | |
| 6 | 89 INTERNATIONAL TRACTR 1HSZB62R7KH667295 | | | 505500 | 0.584 .586 | | | CA 05 | 2 | |

| OTHER VEHICLE INFORMATION | | | | | | | |
|---------------------------|---------------|----------|-----------|------------|-------------|---------|--|
| AUTO NO. | MISCELLANEOUS | CB VALUE | DISCOUNTS | RADIO TAXI | C.O.H. BASE | VEH DEL | |
| | | | | | | | |

| LIABILITY LIMITS | | | | | | | | | | |
|------------------|---------------|----------|------------------|---------------------|------------|----------|-------------|--------|---------|---------|
| IN THOUSANDS | | | | | | | | | | |
| AUTO NO. | BODILY INJURY | PD | INSURED MOTORIST | UNINSURED MOTORISTS | UNDER ORPD | NO FAULT | ADDL NO FLT | PD DED | RED DED | RED PAY |
| | EACH PER | EACH OCC | EACH PER | EACH OCC | INS PD | VAL | | | | VAL |
| 4 | CSL | 1000 | | 30 60 | | | | | | 1000 |
| 5 | CSL | 1000 | | | | **RE | | | | |
| 6 | CSL | 1000 | | 30 60 | | | | | | |

**RE ORPD COVERAGE REJECTED

| PREMIUMS | | | | | | | | | | | | |
|----------|----|----|---------|----------|------------|-------------|------|------------|---------|--|---------|-----------|
| AUTO NO. | BI | PD | RED PAY | NO FAULT | ADDL N FLT | UNINS MOTOR | ORPD | ONDR MOTOR | ONDR PD | | PED PIP | RNEC LIAB |
| | | | | | | | | | | | | |

| PREMIUMS | | | | | | | | | | | | |
|----------|--|--|------------|-------------|----------|--|--|--|--|--|--|--|
| AUTO NO. | | | SPEC PERIL | SOUND EQUIP | LOSS USE | | | | | | | |
| | | | | | | | | | | | | |

| STAT C.O.D.E.S | | | | | | | | | | | | |
|----------------|----|----|---------|--------|---------|---------|--------|-----|---------|-----|---------|-------------|
| AUT NO. | BI | PD | RED PAY | NO FLT | ADD N E | UNI MOT | ST EXC | COM | SPE PER | COL | PIP DEQ | SOU EQU USE |
| 4 | 18 | | 03 | | | 04 | | | | | | |
| 5 | 18 | | | | | | | | | | | |
| 6 | 18 | | | | | 04 | | | | | | |

AMENDED

04/11/91

POLICY NO:

CP 4506889 0

LOSS PAYEES NAMES AND ADDRESSES

AUTO ANY PHYSICAL DAMAGE LOSS IS PAYABLE TO YOU AND THE LOSS PAYEE
NO. NAMED BELOW AS INTERESTS MAY APPEAR AT THE TIME OF THE LOSS.

NO. ADDITIONAL INSURED NAME AND ADDRESSES

6

IDEALEASE INC
C/O WESTRUX INTERNATIONAL
5816 CORPORATE WAY
CYPRESS CA 90630

AMENDED

04/11/91

POLICY NO:

CP 4506889 0

ITEM 3

SCHEDULE OF COVERED AUTOS

| VEHICLE INFORMATION | | | | | | | | | | |
|---------------------|---|---------------|-----------|------------|-----------|------------|------------|---------|----|--|
| AUTO NO. | IDENTIFICATION DESCRIPTION | C.O.H. TAX CD | INDV ZEMP | CLASS CODE | EXP / PZS | COST / SYM | PNT2 DR. 3 | ST/ IER | AG | |
| 7 | 88 TRAILMOBILE TRAILER 1PTW71UJ1J9008443 | | | 675500 | 0.584 | | | CA 05 | 3 | |
| 8 | 89 TOYOTA CAMRY JT2SV21E6K3395389 | | | 739800 | 0.584 | | | CA 02 | 2 | |
| 9 | 42 ENGCP TRAILER DB9723531 | | | 675500 | 0.584 | | | CA 05 | 6 | |
| | | | | | 1.000 | | | | | |

OTHER VEHICLE INFORMATION

| AUTO NO. | MISCELLANEOUS | CB VALUE | DISCOUNTS | RADIO TAXI | C.O.H. BASE | VEH DEL | |
|----------|---------------|----------|-----------|------------|-------------|---------|--|
| | | | | | | | |

LIABILITY LIMITS

| IN THOUSANDS | | | | | | | | | | |
|--------------|---------------|----------|------------------------|---------------------|--------------------|----------|-------------|------------|---------|--------|
| AUTO NO. | BODILY INJURY | PD | UNDER-INSURED MOTORIST | UNINSURED MOTORISTS | UNDER OR PD INS PD | NO FAULT | ADDL NO FLT | PD DED DED | MED PAY | |
| | EACH PER | EACH OCC | EACH PER | EACH OCC | EACH PER | EACH OCC | \$ VAL | | | \$ VAL |
| 7 | CSL 1000 | | | *REJ | | 60 | **RE | | | 1000 |
| 8 | CSL 1000 | | | | | | | | | |
| 9 | CSL 1000 | | | *REJ | | | **RE | | | |

*REJ UM COVERAGE REJECTED

**RE UMPD COVERAGE REJECTED

| PREMIUMS | | | | | | | | | | |
|----------|----|----|---------|----------|------------|-------------|-------|------------|---------|----------|
| AUTO NO. | BI | PD | MED PAY | NO FAULT | ADDL N FLT | UNINS MOTOR | OR PD | UNDR MOTOR | UNDR PD | PED PIP |
| | | | | | | | | | | REC LIAB |

| PREMIUMS | | | | | | | | | | |
|----------|--|--|------------|-------------|----------|--|--|--|--|--|
| AUTO NO. | | | SPEC PERIL | SOUND EQUIP | LOSS USE | | | | | |

| STAT CODES | | | | | | | | | | |
|------------|----|----|---------|--------|----------|-----------|--------|---------|-----|---------|
| AUTO NO. | BI | PD | MED PAY | NO FLT | ADDL N F | UNINS MOT | ST EXC | SPE PER | COL | PIP DED |
| 7 | 18 | | | | | | | | | |
| 8 | 18 | | 03 | | | 04 | | | | |
| 9 | 18 | | | | | | | | | |

AMENDED

04/11/91

POLICY NO:

CP 4506889 0

LOSS PAYEE'S NAMES AND ADDRESSES

AUTO ANY PHYSICAL DAMAGE LOSS IS PAYABLE TO YOU AND THE LOSS PAYEE
NO. NAMED BELOW AS INTERESTS MAY APPEAR AT THE TIME OF THE LOSS.

NO. ADDITIONAL INSURED NAME AND ADDRESSES

7 IDEALEASE INC
C/O WESTRUX INTERNATIONAL
5816 CORPORATE WAY
CYPRESS CA 90630

8 WELLS FARGO BANK
INSURANCE OFFICE
P O BOX 5012
EL TORO CA 92630

AMENDED

04/11/91

POLICY NO:

CP 4506889 0

ITEM 3

SCHEDULE OF COVERED AUTOS

| VEHICLE INFORMATION | | | | | | | | | | |
|---------------------|------------------------------|---------------|-----------|------------|-----------|------------|---------|---------|----|---|
| AUTO NO. | IDENTIFICATION DESCRIPTION | C.O.H. TAX CD | INDV ZEMP | CLASS CODE | EXP / P/S | COST / SYM | DATE OR | ST/ETER | AG | |
| 10 | 85 FREIGHTLINER TRACTOR | | | 505500 | 0.584 | | | CA | 6 | |
| 11 | 1FUYYCYB0GP272612 HIRED AUTO | 36148 | | 661100 | 1.000 | | | CA | 05 | 6 |
| 12 | EMPLOYERS NON-OWNED | | 25 | 660100 | 0.584 | | | CA | 05 | 6 |

| OTHER VEHICLE INFORMATION | | | | | | | | | | |
|---------------------------|---------------|----------|-----------|------------|------------|------|-----|--|--|--|
| AUTO NO. | MISCELLANEOUS | CB VALUE | DISCOUNTS | RADIO TAXI | C.O.H. VEH | BASE | DEF | | | |
| 11 | | | | | 1.11 | | | | | |

LIABILITY LIMITS

| IN THOUSANDS | | | | | | | | | | |
|--------------|---------------|----------|------------------------|---------------------|------------|----------|-------------|--------|---------|---------|
| AUTO NO. | BODILY INJURY | PD | UNDER-INSURED MOTORIST | UNINSURED MOTORISTS | UNDER UNPD | NO FAULT | ADDL NO FLT | PD DED | RED DED | RED PAY |
| | EACH PER | EACH OCC | EACH PER | EACH OCC | EACH PER | EACH OCC | | | | |
| 10 | CSL | 1000 | | 30 | | 60 | | | | |
| 11 | CSL | 1000 | | *REJ | | | **RE | | | |
| 12 | CSL | 1000 | | *REJ | | | **RE | | | |

*REJ UN COVERAGE REJECTED

**RE UNPD COVERAGE REJECTED

| PREMIUMS | | | | | | | | | | |
|----------|----|----|---------|----------|-------------|-------------|------|------------|---------|---------|
| AUTO NO. | BI | PD | RED PAY | NO FAULT | ADDL IN FLT | UNINS MOTOR | UNPD | UNDR MOTOR | UNDR PD | PED PIP |
| | | | | | | | | | | |

| PREMIUMS | | | | | | | | | | |
|----------|------------|-------------|----------|--|--|--|--|--|--|--|
| AUTO NO. | SPEC PERIL | SOUND EQUIP | LOSS USE | | | | | | | |
| | | | | | | | | | | |

| S.I.A.T. C.D.B.F.S. | | | | | | | | | | |
|---------------------|----|----|---------|----------|-------------|-------------|------|------------|---------|---------|
| AUT NO. | BI | PD | RED PAY | NO FAULT | ADDL IN FLT | UNINS MOTOR | UNPD | UNDR MOTOR | UNDR PD | PED PIP |
| 10 | 18 | | | | | | | | | |
| 11 | 18 | | | | | | | | | |
| 12 | 18 | | | | | | | | | |

JOSI & DOLD

INSURANCE SERVICES

100 OCEANGATE, SUITE 604 • P.O. BOX 22733, LONG BEACH, CA 90801
(213) 435-7873 • (213) 775-2705 • (714) 821-7410

SEP 04 1991

September 3, 1991

Omega Chemical Corporation
12504 E. Whittier Boulevard
Whittier, CA 90602

Attn: Dennis O'Meara

Re: Property Insurance
Policy No. ST 260 07 69
Expiration: 12-18-91

Captioned policy covering real and personal property will expire on 12-18-91. Current limits of coverage are indicated below.

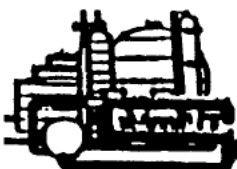
| | | |
|-------------------------------------|------------|------------|
| Blanket Buildings: | \$ 660,000 | |
| Blanket Business Personal Property: | 1,300,000 | |
| Business Interruption: | None | |
| Data Processing Equipment/Media: | | |
| 12054 E. Whittier Blvd. | 56,500 | Equipment |
| Whittier, CA | 9,500 | Media/Data |
| 443 McCadden Blvd. | 5,000 | Equipment |
| Los Angeles, CA | 3,500 | Media/Data |

If you want us to proceed with coverage as currently written, please sign the enclosed form and return to us as soon as possible. If you want to increase coverages, please indicate new values on form, sign where indicated and return to us for forwarding to the Company. If we do not receive renewal form and information by 12-01-91, there could be a lapse in coverage due to the amount of time necessary to process requests at this time of year.

Thank you very much.

Frances Medina

By 



TARRTECH

LOS ANGELES, CALIFORNIA

INSURED:

STATEMENT OF FIRE INSURANCE VALUES

DATE: _____

| <u>Description and Property Item</u> | <u>Year In- stalled</u> | <u>Original Cost</u> | <u>Replacement Cost Factor</u> | <u>Replacement Cost Today (New)</u> | <u>Less Ex- clusions</u> | <u>100% Replace- ment Cost In- surable Value Today</u> | <u>%Depreciation 35% Max.In Use 50% Max.Out of Service</u> | <u>\$ Depre- ciation</u> | <u>100% Actual Cash Value Insurable</u> |
|--|-----------------------------|--------------------------|------------------------------------|---|------------------------------|--|--|------------------------------|---|
|--|-----------------------------|--------------------------|------------------------------------|---|------------------------------|--|--|------------------------------|---|

100% RC TOTAL: _____
90% RC POLICY AMOUNT: _____

100% ACV TOTAL: _____
90% ACV POLICY AMOUNT: _____

✓

SIGNATURE AND TITLE OF OFFICER

DATE SIGNED

Memo To Insured

JOSI & DOLD

Post Office Box 22733
Long Beach, California 90801
(213) 775-2705 • (213) 435-7873 • (714) 821-7410

ATTENTION: Dennis O'Meara

Date: September 03, 1991

TO: Omega Chemical Corporation
12504 E. Whittier Blvd.
Whittier, CA 90602

REFERENCE:
Automobile Physical Damage
Policy No. S893627427-A
Renewal: 12-19-91 To 12-19-92

We are using this simplified memo to speed transmittal of information. Please note ONLY the item(s) checked below and if a reply is in order your early attention will help us provide prompt service. A business reply envelope is enclosed for your convenience.

- ☐ Please complete, sign and return the enclosed forms. ☐ Have signature notarized.
- ☐ Please forward your check in the amount of \$ _____ made out to _____.
- ☐ Please make certain the information on the enclosed application is accurate. Fill in the checked items and sign the application.
- ☐ The enclosed endorsement form is part of your insurance policy and should be attached to it.
- ☐ Your insurance policy will expire on _____ and renewal premium will be \$ _____. Please send remittance.
*Please advise if you wish us to arrange premium financing.
- ☐ Due to the increased valuation of your property we recommend that you increase your coverage to \$ _____.
The renewal premium will be \$ _____.
- ☐ Your new or renewal policy is enclosed. Please check it for accuracy and notify us immediately of any change.
- ☐ Your claim has been received and has been forwarded to the company.
- ☐ In connection with your claim we need ☐ estimate (s) ☐ a receipt for repairs or replacement
☐ original bills or proof of original purchase.
- ☐ It is a pleasure to send you the enclosed check in payment of your claim.
- ☒ Enclosed is renewal application for your signature on page 2 - then
after reviewing vehicles/additional interests shown - please return
to our office with any corrections necessary.

MESSAGE:

Will you kindly return the application to our office by
November 15th so we have sufficient time to obtain the
quote and send your payment to AFCO for financing.

Also, we are including list of drivers we have on record.

Thank you very much,

SIGNED: Lorraine

LLOYD'S



LONDON

Automobile Physical Damage Insurance

Commercial Vehicles

PROPOSAL FORM

Omega Chemical Corporation: DBA Omega Recovery
Services; Dennis O'Meara, An Individual

1. Name of Applicant
2. Address....12504..E..Whittier.Bldg.,..Whittier, CA 90602.....
Number Street City State
3. Address of Principal Terminal If other than above
4. Radius of Operation.....50..Priv.Pass; Intermediate-Comm'l
Miles between following principal cities.....L.A.
and Orange Counties, Principally
5. Type of Cargo carried....Recycled.Solvents.....
6. Number of Years in this business14.Years.....
7. Vehicle(s) legally owned by...Omega.Chemical.Corp./..2 Leased Vehicles...
Loss payable toSee.Attached.....
8. Name of previous CarrierLloyds.....
9. Name of Carrier of Public Liability and Property Damage Insurance..National Continental
.....Ins.....
10. Has Applicant had previous Fire, Theft and Collision Automobile Insurance cancelled?.....No If so, state
date, name of Insurance Company and reasons for cancellation
11. Is Vehicle(s) Owner-Driven? ...Yes....If drivers are employed, what investigations are made?
.....MVR's checked.....
12. If more than one Vehicle covered, what is the estimated maximum possible terminal loss? ..344,031...
13. Amount of Deductible(s) on Collision \$1,000.-Priv.Pass.
\$2,500.-Other Comm'l Vehs.
14. Will you ever use hired Equipment? ..Possibly - not on a regular basis.....
15. Will any of your Equipment ever be loaned or rented to others?NO.....
16. Do you own or use Trucks and/or Trailers other than those listed under Item 20 below?.....NO.....
If answer is "Yes" specify vehicles and state reasons why insurance is not required.....
17. Is Equipment regularly inspected and serviced, if so, at what periods?...Yes - trucks
checked at least weekly - Private Passenger, every 7,500 miles

| Year | Premiums | LOSSES | | | |
|-------|----------|--------|-------|--------------------------|-------------------------|
| | | Fire | Theft | Collision | Any other physical Loss |
| 19 88 | | -- | -- | 1,116.10 | -- |
| 19 87 | | -- | -- | Coll: from O/P 2,700* | -- |
| 19 86 | | -- | -- | -- | -- |
| 19 85 | | -- | 3,113 | -- | -- |
| 19 84 | | -- | -- | -- | -- |

* Subrogation

20. Description of Vehicle: (Specify Truck, Tractor, Trailer, Semi.)

| Item No. | Trade Name | Model Year | Type (Truck, Tractor, Trailer, Semi-trailer, Truck Type Tractor) | Serial No. | Motor No. | Gas (O) or Diesel (D) | Original Cost New Plus Equipment, Alterations and Additions | Amount of Insurance Desired |
|----------|---------------|------------|--|-------------|-----------|-----------------------|---|-----------------------------|
| 1 | Internat | 184 | Tractor | 1HSLRGNIEHA | 66152 | D | 34,000 | 34,000 |
| 2 | Mercedes Benz | 88 | 190E 2.3 | WDBDA28D6 | JF456891 | G | 23,700 | 23,700 |
| 3 | Mercedes Benz | 82 | 380SLC | WDBBA45A7 | CB018243 | G | 31,600 | 31,600 |
| 4 | Utility | 84 | Semi-Trl. | SL-2313-02 | | | 14,000 | 14,000 |
| 5 | Freight-liner | 85 | W/Waltco Lift Gate Tractor | 1FUYYCYBO | GP272612 | D | 74,000 | 74,000 |
| 6 | | | | | | | | |
| 7 | Internat | 89 | Tractor | 1HSZBG2R7 | KH667925 | | 60,338 | 60,338 |
| 8 | Trail-mobile | 88 | Trailer 42' | 1PTW71UJ1 | J9008443 | | 26,125 | 26,125 |
| 9 | Toyota Camray | 89 | 2522 | JT2SV31E6 | K3395389 | | 13,000 | 13,000 |
| 10 | | | | | | | | |

This application shall not be binding on the Underwriters unless and until a contract of insurance shall be issued and delivered in accordance herewith and then only as of the commencement date of said insurance and in accordance with all terms thereof and the said Applicant hereby covenants and agrees to and with the Underwriters that the foregoing statements and answers are a just, full and true exposition of all the facts and circumstances with regard to the risk to be insured, insofar as same are known to the Applicant, and the same are hereby made the basis and condition of the insurance.

SIGNED AT...Whittier...CA.....

This.....day of January 1991

By.....

(APPLICANT)
(Applicant should state official position)

APPLICANT WITNESS

AGENT

Location of Agency Long Beach, CA

OMEGA CHEMICAL CORP.

LENDERS

Bank of America, NT & SA
Insurance Center #9990
P. O. Box 9385
Wasnut Creek, CA 94598

As REspects: 1982 Mercedes Benz, 380SL #18243
Loan No. 1346-85499
1984 International Tractor #66152
Loan No. 1346-7-80482
1985 Freightliner Tractor #72612
Loan No. 1346-1-07036
1988 Mercedes Benz, 190E 2.3 #56891
Loan No. 1069-0-99805

Bank of America, NT&SA
No. 9990
P.O. Box 9385
Walnut Creek, CA 94598
Acct. No. 1069-0-99805

As Respects: 1988 Mercedes Benz 190E 2.3, #WDBDA28D6JF456891.

LEASED VEHICLES

Idealease, Inc./
Westrux International
5816 Corporate Avenue
Cypress, CA 90630

As Respects: 1989 International Tractor, #1HSZBG2R7KH667925
1988 Trailmobile Trailer, 42', #1PTW71UJ1J9008443

OMEGA CHEMICAL CORP. - LEASED VEHICLES CONT'D

1989 Toyota Camry, Model #2522, #JT2SV31E6K3395389

Additional Insured (lessor):

Longo Toyota
3534 N. Peck Road
El-Monte, CA 91731

Loss Payee:

Wells Fargo Bank
P. O. Box 816
Anaheim, CA 92815

Omega Chemical Corporation

Vehicle Drivers:

Dennis R. O'Meara
Javier G. Hernandez
Henry R. Solomon
Robert J. Ciringeoni
Gilbert B. Solomon
Chris E. Martinez
Norbert J. Solomon
John W. Halte
Isaac Woods Jr.
Jose Hernandez Carrillo

ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

04/24/91

PRODUCER

JOHNSON & HIGGINS OF CALIFORNIA
695 TOWN CENTER DRIVE, SUITE 700
COSTA MESA, CA 92626

PHONE: 714/641-8899 FAX: 714/979-0797
714/433-2055

INSURED

CALIFORNIA CHEMICAL DISPOSAL, INC.
1815 E. "O" STREET
WILMINGTON, CA 90744

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND
CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE
DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE
POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY
LETTER A

PLANET INSURANCE COMPANY

COMPANY
LETTER B

NATIONAL CONTINENTAL INSURANCE

COMPANY
LETTER CCOMPANY
LETTER DCOMPANY
LETTER E

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD
INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS
CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS,
EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| CO LTR | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS |
|-----------|--|---------------------------|-------------------------------------|--------------------------------------|---|
| A | X COMMERCIAL GENERAL LIABILITY X CLAIMS MADE OCCUR. OWNER'S & CONTRACTOR'S PROT. | NGB1259344 CLAIMS MADE | 11/01/90 | 11/01/91 | GENERAL AGGREGATE \$ 1,000,000. |
| | | | | | PRODUCTS-COMP/OP AGG. \$ 1,000,000. |
| | | | | | PERSONAL & ADV. INJURY \$ 1,000,000. |
| | | | | | EACH OCCURRENCE \$ 1,000,000. |
| | | | | | FIRE DAMAGE (Any one fire) \$ 50,000. |
| | | | | | MED. EXPENSE (Any one person) \$ 5,000. |
| B | X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS GARAGE LIABILITY | CP5540776 | 04/25/91 | 04/25/92 | COMBINED SINGLE LIMIT \$ 5,000,000. |
| | | | | | BODILY INJURY (Per person) \$ |
| | | | | | BODILY INJURY (Per accident) \$ |
| | | | | | PROPERTY DAMAGE \$ |
| | EXCESS LIABILITY UMBRELLA FORM OTHER THAN UMBRELLA FORM | | | | EACH OCCURRENCE \$ |
| | | | | | AGGREGATE \$ |
| | WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY | | | | STATUTORY LIMITS |
| | | | | | EACH ACCIDENT \$ |
| | | | | | DISEASE—POLICY LIMIT \$ |
| | | | | | DISEASE—EACH EMPLOYEE \$ |
| | OTHER | | | | |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

FORM MCS90 APPLIES, AS RESPECTS AUTOMOBILE LIABILITY POLICY SHOWN ABOVE

CERTIFICATE HOLDER

OMEGA CHEMICAL CORPORATION
12504 WHITTIER BLVD.
WHITTIER, CA 90602

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE
EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO
MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE
LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR
LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

VALERY CAREY

Valery Carey

Certificate

Previous No. NEW

Authority Ref. No. 092347800

Certificate No. IWOM 2311

Evidencing Placement of Insurance

Broker hereby certifies that, pursuant to the instructions of the Assured and acting on behalf of the Assured, insurance as described herein has been effected with: **CERTAIN UNDERWRITERS AT LLOYDS, LONDON (NOT INCORPORATED)**

The insurance as described herein has been placed pursuant to California Insurance Code, Sections 1760 through 1780, and has been placed in insurers not holding a Certificate of Authority from or regulated by the California Insurance Commissioner.

Broker has received advice in the ordinary course of business that such insurance has been placed with certain Underwriters, whose name(s) and the proportion(s) underwritten by them can be ascertained from said Broker (such Underwriters being hereinafter called "Underwriters") and in consideration of the premium specified herein, Underwriters have agreed to bind themselves each for his own part and not one for another, their heirs, executors and administrators.

The Assured is requested to read this certificate, and if not correct, return it immediately to the Broker for appropriate alteration.

In the event of a claim under the insurance described in this certificate, please notify the following Broker:

SWETT AND CRAWFORD, P.O. BOX 16246, IRVINE, CA 92714

DECLARATIONS

- Name and address of the Assured — (including interest of the Assured in property insured, if Assured is not the absolute owner thereof.)
OMEGA CHEMICAL CORPORATION, DBA: OMEGA RECOVERY SERVICES;
DENNIS O'MEARA, AN INDIVIDUAL
12504 EAST WHITTIER BLVD., WHITTIER, CA 90602
- Effective from _____ to _____
both days at 12:01 a.m. standard time at location of risk.

- This evidences that Insurance has been placed with:

**UNDERWRITERS AT LLOYDS, LONDON FOR 100%
OF AMOUNT/LIMIT**

COVERAGE: AUTO FIRE, THEFT, COMBINED ADDITIONAL
COVERAGE AND COLLISION, VANDALISM AND MALICIOUS
MISCHIEF

FORMS: NMA355; NMA1650; NMA1998; ENDT. #1;
ENDT. #2; ENDT. #3

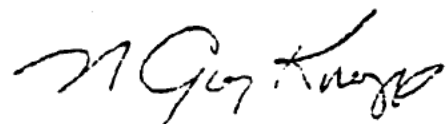
| AMOUNT | RATE | PREMIUM |
|--------------|--------------|--------------|
| PER ENDT. #1 | PER ENDT. #2 | \$ 23,039.00 |
| | | \$ |
| | | \$ |
| | | \$ |
| STATE TAX | | \$ 691.17 |
| STAMPING FEE | | \$ 23.04 |
| | | \$ |
| TOTAL | | \$ 23,753.21 |
| AUDIT | | |

- Service of Suit may be made upon:

MENDES AND MOUNT
LOS ANGELES, CA

Dated at FRESNO, CA
RLK/AAW/IRVINE/LV

This _____ day of FEBRUARY 19____



M. G. K. K.

Certificate No. IWOM 2311

Broker hereby certifies that, pursuant to the instructions of the Assured and acting on behalf of the Assured, insurance as described herein has been effected with: **CERTAIN UNDERWRITERS AT LLOYDS, LONDON (NOT INCORPORATED)**

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SWETT AND CRAWFORD, P.O. BOX 16246, IRVINE, CA 92714

Dated at FRESNO, CA
RLK/AAW/IRVINE/LV
 This 3RD day of FEBRUARY 19 92.

Certificate

Previous No. NEW

Authority Ref. No. 092347800

Certificate No. IWOM 2311

Evidencing Placement of Insurance

Broker hereby certifies that, pursuant to the instructions of the Assured and acting on behalf of the Assured, insurance as described herein has been effected with: **CERTAIN UNDERWRITERS AT LLOYDS, LONDON (NOT INCORPORATED)**

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DECLARATIONS

- Name and address of the Assured — (including interest of the Assured in property insured, if Assured is not the absolute owner thereof.)
OMEGA CHEMICAL CORPORATION, DBA: OMEGA RECOVERY SERVICES;
DENNIS O'MEARA, AN INDIVIDUAL
12504 EAST WHITTIER BLVD., WHITTIER, CA 90602
- Effective from _____ to _____
both days at 12:01 a.m. standard time at location of risk.

- This evidences that Insurance has been placed with:
UNDERWRITERS AT LLOYDS, LONDON FOR 100% OF AMOUNT/LIMIT

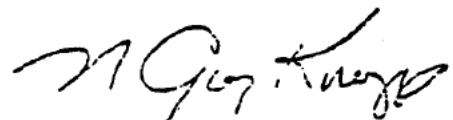
COVERAGE: AUTO FIRE, THEFT, COMBINED ADDITIONAL COVERAGE AND COLLISION, VANDALISM AND MALICIOUS MISCHIEF

FORMS: NMA355; NMA1650; NMA1998; ENDT. #1; ENDT. #2; ENDT. #3

| AMOUNT | RATE | PREMIUM |
|--------------|--------------|--------------|
| PER ENDT. #1 | PER ENDT. #2 | \$ 23,039.00 |
| | | \$ |
| | | \$ |
| | | \$ |
| STATE TAX | | \$ 691.17 |
| STAMPING FEE | | \$ 23.04 |
| | | \$ |
| TOTAL | | \$ 23,753.21 |
| AUDIT | | |

- Service of Suit may be made upon:
MENDES AND MOUNT
LOS ANGELES, CA

Dated at FRESNO, CA
RLK/AAW/IRVINE/LV
1ST FEBRUARY



Certificate

Previous No. NEW

Authority Ref. No. 092347800

Certificate No. IWOM 2311

Evidencing Placement of Insurance

Broker hereby certifies that, pursuant to the instructions of the Assured and acting on behalf of the Assured, insurance as described herein has been effected with: **CERTAIN UNDERWRITERS AT LLOYDS, LONDON (NOT INCORPORATED)**

The insurance as described herein has been placed pursuant to California Insurance Code, Sections 1760 through 1780, and has been placed in insurers not holding a Certificate of Authority from or regulated by the California Insurance Commissioner.

Broker has received advice in the ordinary course of business that such insurance has been placed with certain Underwriters, whose name(s) and the proportion(s) underwritten by them can be ascertained from said Broker (such Underwriters being hereinafter called "Underwriters") and in consideration of the premium specified herein, Underwriters have agreed to bind themselves each for his own part and not one for another, their heirs, executors and administrators.

The Assured is requested to read this certificate, and if not correct, return it immediately to the Broker for appropriate alteration.

In the event of a claim under the insurance described in this certificate, please notify the following Broker:

SWETT AND CRAWFORD, P.O. BOX 16246, IRVINE, CA 92714

DECLARATIONS

1. Name and address of the Assured — (including interest of the Assured in property insured, if Assured is not the absolute owner thereof.)
OMEGA CHEMICAL CORPORATION, DBA: OMEGA RECOVERY SERVICES;
DENNIS O'MEARA, AN INDIVIDUAL
12504 EAST WHITTIER BLVD., WHITTIER, CA 90602

2. Effective from _____ to _____
both days at 12:01 a.m. standard time at location of risk.

3. This evidences that Insurance has been placed with:
**UNDERWRITERS AT LLOYDS, LONDON FOR 100%
OF AMOUNT/LIMIT**

COVERAGE: AUTO FIRE, THEFT, COMBINED ADDITIONAL
COVERAGE AND COLLISION, VANDALISM AND MALICIOUS
MISCHIEF

FORMS: NMA355; NMA1650; NMA1998; ENDT. #1;
ENDT. #2; ENDT. #3

| AMOUNT | RATE | PREMIUM |
|--------------|--------------|--------------|
| PER ENDT. #1 | PER ENDT. #2 | \$ 23,039.00 |
| | | \$ |
| | | \$ |
| | | \$ |
| STATE TAX | | \$ 691.17 |
| STAMPING FEE | | \$ 23.04 |
| | | \$ |
| TOTAL | | \$ 23,753.21 |
| AUDIT | | |

4. Service of Suit may be made upon:
MENDES AND MOUNT
LOS ANGELES, CA

Dated at FRESNO, CA
RLK/AAW/IRVINE/LV

1ST FEBRUARY

Certificate

Previous No. NEW

Authority Ref. No. 092347800

Certificate No. IWOM 2311

Evidencing Placement of Insurance

Broker hereby certifies that, pursuant to the instructions of the Assured and acting on behalf of the Assured, insurance as described herein has been effected with: **CERTAIN UNDERWRITERS AT LLOYDS, LONDON (NOT INCORPORATED)**

The insurance as described herein has been placed pursuant to California Insurance Code, Sections 1760 through 1780, and has been placed in insurers not holding a Certificate of Authority from or regulated by the California Insurance Commissioner.

Broker has received advice in the ordinary course of business that such insurance has been placed with certain Underwriters, whose name(s) and the proportion(s) underwritten by them can be ascertained from said Broker (such Underwriters being hereinafter called "Underwriters") and in consideration of the premium specified herein, Underwriters have agreed to bind themselves each for his own part and not one for another, their heirs, executors and administrators.

The Assured is requested to read this certificate, and if not correct, return it immediately to the Broker for appropriate alteration.

In the event of a claim under the insurance described in this certificate, please notify the following Broker:
SWETT AND CRAWFORD, P.O. BOX 16246, IRVINE, CA 92714

DECLARATIONS

- Name and address of the Assured — (including interest of the Assured in property insured, if Assured is not the absolute owner thereof.)
OMEGA CHEMICAL CORPORATION, DBA: OMEGA RECOVERY SERVICES;
DENNIS O'MEARA, AN INDIVIDUAL
12504 EAST WHITTIER BLVD., WHITTIER, CA 90602
- Effective from 19TH DECEMBER 1990 to 19TH DECEMBER 1991
both days at 12:01 a.m. standard time at location of risk.

- This evidences that Insurance has been placed with:

**UNDERWRITERS AT LLOYDS, LONDON FOR 100%
OF AMOUNT/LIMIT**

COVERAGE: AUTO FIRE, THEFT, COMBINED ADDITIONAL
COVERAGE AND COLLISION, VANDALISM AND MALICIOUS
MISCHIEF

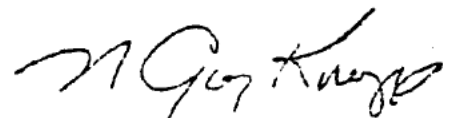
FORMS: NMA355; NMA1650; NMA1998; ENDT. #1;
ENDT. #2; ENDT. #3

| AMOUNT | RATE | PREMIUM |
|--------------|--------------|--------------|
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| | | \$ |
| | | \$ |
| | | \$ |
| STATE TAX | | \$ 691.17 |
| STAMPING FEE | | \$ 23.04 |
| | | \$ |
| TOTAL | | \$ 23,753.21 |
| AUDIT | | |

- Service of Suit may be made upon:
MENDES AND MOUNT
LOS ANGELES, CA

Dated at FRESNO, CA
RLK/AAW/IRVINE/LV

This 1ST day of FEBRUARY 1991





national continental insurance

To

*Omega Chemical Corp.
12504 E. Whittier Blv
Whittier, CA 90602*

Please Reply To:

Date: *10/7/91*

Re: Policy Number: *4606-889*

Inception Date:

Policy Period: *9/24/90 - 9/24/91*

In accordance with the California Automobile Insurance Plan (C.A.I.P.), National Continental Insurance Company has the responsibility to provide premium review and loss control services to our insureds in the California Automobile Risk Plan.

This letter is to confirm our appointment of *10/15/90* at *bet. 10:00am + 10:30am*
(date) (time)

(☒) As we agreed please have the following information available for my review:

- () Driver's list. Please include all drivers who operate your vehicles, their full name and driver's license number.
- (☒) Vehicle list. Please provide a list of all the vehicles registered to your company and include the vehicle identification number. (VIN)
- (☒) Payment records to subhaulers including: *Yany*
 - a. General Ledger
 - b. Income Statement
 - c. IRS Forms 1099
 - d. Cash Disbursements Journal
 - e. _____
- () All subhauler information including authority numbers, their DBA's, contracts, insurance certificates, etc.
- (☒) Bills of lading, manifests, shipping invoices
- () Driver files
- () Vehicle files
- () Safety Programs
- () Tax I.D. number
- () _____
- () _____

This letter is not a confirmation of any insurance coverage, nor is it to be construed as verification of any policy being in force before, during or after the date of this letter, nor will this letter alter the terms of any coverage which may or may not exist.

Form No. 0089 (8/90)



*Carmen Cabrera
CAIP Field Representative*

*National Continental Insurance
PO Box 60850
Pasadena, CA 91160
(800) 777-3030, Extension 114
(818) 796-3078
Customer Service (916) 638-6708*



national continental insurance

To

Omega Chemical Corp.
12584 E. Whittier Blv
Whittier, CA 90602

Please Reply To:

Date: 10/7/91

Re: Policy Number: 4506-889

Inception Date:

Policy Period: 9/24/90 - 9/24/91

In accordance with the California Automobile Insurance Plan (C.A.I.P.), National Continental Insurance Company has the responsibility to provide premium review and loss control services to our insureds in the California Automobile Risk Plan.

This letter is to confirm our appointment of 10/15/90 at bet. 10:00am + 10:30am
(date) (time)

(✓) As we agreed please have the following information available for my review:

- () Driver's list. Please include all drivers who operate your vehicles, their full name and driver's license number.
- (✓) Vehicle list. Please provide a list of all the vehicles registered to your company and include the vehicle identification number. (VIN)
- (✓) Payment records to subhaulers including: *any*
 - a. General Ledger
 - b. Income Statement
 - c. IRS Forms 1099
 - d. Cash Disbursements Journal
 - e. _____

() All subhauler information including authority numbers, their DBA's, contracts, insurance certificates, etc.

(✓) Bills of lading, manifests, shipping invoices

() Driver files

() Vehicle files

() Safety Programs

() Tax I.D. number

() _____

() _____

This letter is not a confirmation of any insurance coverage, nor is it to be construed as verification of any policy being in force before, during or after the date of this letter, nor will this letter alter the terms of any coverage which may or may not exist.

ENDORSEMENT

IN CONSIDERATION OF \$11,096.00 PREMIUM CHARGED FOR THE PERIOD OF DECEMBER 18, 1990 TO DECEMBER 18, 1991, THE EXPIRATION DATE OF THIS POLICY IS EXTENDED TO 12:01 A.M. ON DECEMBER 18, 1991.

IT IS AGREED THAT THE MINIMUM FULLY EARNED PREMIUM IS THE PREMIUM OF \$10,000.00.

| <u>ITEM NO.</u> | <u>PREMIUM COMPUTATION</u> | <u>1-YEAR RATE</u> | <u>1-YEAR PREMIUM</u> |
|------------------------|-----------------------------------|---------------------------|--------------------------------|
| I - REAL PROPERTY | \$ 660,000.00 | \$.54 | \$ 3,564.00 |
| I - BPP | \$1,300,000.00 | \$.54 | \$ 7,020.00 |
| II - EDP | \$ 61,500.00 | \$.54 | \$ 332.00 |
| II - MEDIA | \$ 13,000.00 | \$1.00 | \$ 130.00 |
| II - E.E. | \$ 5,000.00 | \$1.00 | \$ 50.00 |
| | | | PREMIUM: \$11,096.00 |
| | | | CIGA FEE: \$ 110.00 |
| | | | TOTAL PREMIUM DUE: \$11,206.00 |

MINIMUM EARNED PREMIUM \$10,000.00

IT IS FURTHER AGREED THAT UNDER LIMITS OF LIABILITY CLAUSE 6 ON PAGE NO. 2 IS CHANGED TO READ AS FOLLOWS:

- A. \$ 660,000.00 IS THE MOST THIS POLICY SHALL BE LIABLE FOR AS RESPECTS TO DIRECT PHYSICAL LOSS OR DAMAGE TO REAL PROPERTY INSURED UNDER ITEM NO. I OF THIS POLICY (90% COINSURANCE CLAUSE APPLIES - RCV).
- B. \$1,300,000.00 IS THE MOST THIS POLICY SHALL BE LIABLE FOR AS RESPECT TO DIRECT PHYSICAL LOSS OR DAMAGE TO BUSINESS PERSONAL PROPERTY INSURED UNDER ITEM NO. I OF THIS POLICY (90% COINSURANCE CLAUSE APPLIES-RCV).
- C. AS RESPECTS ELECTRONIC DATA PROCESSING COVERAGE UNDER ITEM NO. II.
- (1) AT 12054 E. WHITTIER BLVD., WHITTIER, CALIFORNIA
\$56,500.00 ON EQUIPMENT
\$ 9,500.00 ON DATA/MEDIA
- (2) AT 443 MC CADDEN BLVD., WHITTIER, CALIFORNIA
\$ 5,000.00 ON EQUIPMENT
\$ 3,500.00 ON DATA/MEDIA
- D. AS RESPECTS EDP COVERAGE AT PREMISES DESCRIBED ABOVE THE FOLLOWING SHALL APPLY:
- \$ 5,000.00 EXTRA EXPENSE
\$12,500.00 TRANSIT

NOTHING HEREIN CONTAINED SHALL BE HELD TO ALTER, CHANGE, VARY OR WAIVE ANY OF THE POLICY CONDITIONS, LIMITS OR TERMS, EXCEPT AS HEREINABOVE SET FORTH.

THIS ENDORSEMENT ATTACHES TO AND FORMS A PART OF NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA. POLICY NO. ST 260 07 69
ISSUED TO OMEGA CHEMICAL CORPORATION

ENDORSEMENT NO. 10
EFFECTIVE AT 12:01 A.M.
ON DECEMBER 18, 1990

BY: _____

(AUTHORIZED REPRESENTATIVE)

STARR TECHNICAL RISKS AGENCY, INC.
LOSS PAYABLE ENDORSEMENT
AND CERTIFICATE OF INSURANCE

INSURED'S NAME AND MAILING ADDRESS: OMEGA CHEMICAL CORPORATION, ET AL
(M/A: 12504 E. WHITTIER BLVD., WHITTIER, CALIFORNIA 90602).

The interest of TRUCKEE RIVER BANK A CALIFORNIA BANKING CORPORATION, P.O. BOX BD,
TRUCKEE, CALIFORNIA 95734.

is covered for an amount not exceeding \$660,000.00 as respects real property only
at premises known as 12512 E. Whittier Blvd., AND 12504 e. Whittier, California.

Loss, if any, shall be adjusted with and made payable as directed by OMEGA
CHEMICAL CORPORATION, ET AL, and the receipt of the payee(s) so designated shall
constitute a release in full of all liability with respect to such loss.

Loss, if any, under this Policy for the interest as stipulated under this
Endorsement shall not exceed its pro rata proportion of all concurrent insurance
in force for the above-captioned Insured.

THIS COVERAGE IS NOT TRANSFERRABLE AND MAY BE CANCELLED BY THIS INSURER BY GIVING
NOTICE OF CANCELLATION TO SAID PAYEE AS PRESCRIBED IN THE BASIC POLICY FORM, OR
AS AMENDED BY POLICY ENDORSEMENT.

CERTIFICATION

PERILS: RISKS OF DIRECT PHYSICAL LOSS OR DAMAGE OCCURRING DURING THE PERIOD OF
THIS POLICY TO INSURED PROPERTY FROM PERILS OR CAUSES NOT OTHERWISE EXCLUDED IN
THE POLICY FORM OR ITS ENDORSEMENTS.

This certifies that insurance against direct physical loss or damage occurring
during the period of this policy caused by perils or causes named above to
insured property, all in accordance with forms attached to Policy listed below
and subject to the limitations thereof, is in force under said Policy. Of the
total amount of insurance in force, an amount as stipulated above shall apply to
the interest of the Payee under the same terms and conditions as if the insurance
had been written in the Payee's name only for the property described; however,
that any excess of insurance concurrent herewith over and above the value of the
property at risk consigned or belonging to said Payee shall be for the benefit of
the captioned Insured, to cover property not consigned or belonging to said
Payee.

THIS POLICY CONTAINS A DEDUCTIBLE PROVISION IN THE AMOUNT OF \$SEE POLICY FORM.

ATTACHMENTS: 14-A (FORM 438 BFU)

THIS ENDORSEMENT ATTACHES TO AND FORMS A PART OF NATIONAL UNION FIRE INSURANCE
COMPANY OF PITTSBURGH, PA. POLICY NO. ST260 07 69.

EFFECTIVE DATE OF THIS ENDORSEMENT: DECEMBER 18, 1990

POLICY EXPIRES: DECEMBER 18, 1991

ENDORSEMENT NO. 14

BY: 

(AUTHORIZED REPRESENTATIVE)

STARR TECHNICAL RISKS AGENCY, INC.

LENDER'S LOSS PAYABLE ENDORSEMENT

1. Loss or damage, if any, under this policy shall be paid to PER ENDORSEMENT NO. 14, its successors and assigns, hereinafter referred to as "the Lender", in whatever form or capacity its interests may appear and whether said interest be vested in said Lender in its individual or in its disclosed or undisclosed fiduciary or representative capacity, or otherwise, or vested in a nominee or trustee of said Lender.
2. The insurance under this policy, or any rider or endorsement attached thereto, as to the interest only of the Lender, its successors and assigns, shall not be invalidated nor suspended: (a) by any error, omission, or change respecting the ownership, description, possession, or location of the subject of the insurance or the interest therein, or the title thereto; (b) by the commencement of foreclosure proceedings or the giving of notice of sale of any of the property covered by this policy by virtue of any mortgage or trust deed; (c) by any breach of warranty, act, omission, neglect, or noncompliance with any of the provisions of this policy, including warehouseman, custodian, occupant, or by the agents of either or any of them or by the happening of any event permitted by them or either of them, or their agents, or which they failed to prevent, whether occurring before or after the attachment of this endorsement or whether before or after a loss, which under the provisions of this policy of insurance or of any rider or endorsement attached thereto would invalidate or suspend the insurance as to the named Insured, excluding herefrom, however, any acts or omissions of the lender while exercising active control and management of the property.
3. In the event of failure of the Insured to pay a premium or additional premium which shall be or become due under the terms of this policy or on account of any change in occupancy or increase in hazard not permitted by this policy, this Insurer agrees to give written notice to the Lender of such non-payment of premium after sixty (60) days from and within one hundred and twenty (120) days after due date of such premium and it is a condition of the continuance of the rights of the Lender hereunder that the Lender when so notified in writing by this Insurer of the failure of the Insured to pay such premium shall pay or cause to be paid the premium due within ten (10) days following receipt of this Insurer's demand in writing therefor. If the Lender shall decline to pay said premium or additional premium, the rights of the Lender under this Lender's Loss Payable Endorsement shall not be terminated before ten (10) days after receipt of said written notice by the Lender.
4. Whenever this Insurer shall pay to the Lender any sum for loss or damage under this policy and shall claim that as to the Insured no liability therefor exists, this Insurer, at its option, may pay to the Lender the whole principal sum and interest and other indebtedness due or to become due from the Insured, whether secured or unsecured (with refund of all interest not accrued), and this Insurer to the extent of such payment, shall thereupon receive a full assignment and transfer, without recourse, of the debt and all rights and securities held as collateral thereto.

5. If there be any other insurance upon the within described property, this Insurer shall be liable under this policy as to the Lender for the proportion of such loss or damage that the sum hereby insured bears to the entire insurance of similar character on said property under policies held by, payable to and expressly consented to by the Lender. Any Contribution Clause included in any Fallen Building Clause Waiver or any Extended Coverage Endorsement attached to this contract of insurance is hereby nullified, and also any Contribution Clause in any other endorsement or rider attached to this contract of insurance is hereby nullified except Contribution Clauses for the compliance with which the Insured has received reduction in the rate charged or has received extension of the coverage to include hazards other than fire and compliance with such Contribution Clause is made a part of the consideration for insuring such other hazards. The Lender upon the payment to it of the full amount of its claim, will subrogate this Insurer (pro rata with all other insurers contributing to said payment) to all of the Lender's rights of contribution under said other insurance.

6. This Insurer reserves the right to cancel this policy at any time, as provided by its terms, but in such case this policy shall continue in force for the benefit of the Lender for ten (10) days after written notice of such cancellation is received by the Lender and shall then cease.

7. This policy shall remain in full force and effect as to the interest of the Lender for a period of ten (10) days after its expiration unless an acceptable policy in renewal thereof with loss thereunder payable to the Lender in accordance with the terms of this Lender's Loss Payable Endorsement, shall have been issued by some insurance company and accepted by the Lender.


8. Should legal title to and beneficial ownership of any of the property covered under this policy become vested in the Lender or its agents, insurance under this policy shall continue for the term thereof for the benefit of the Lender but, in such event, any privileges granted by this Lender's Loss Payable Endorsement which are not also granted the Insured under the terms and conditions of this policy and/or under other riders or endorsements attached thereto shall not apply to the insurance hereunder as respects such property.

9. All notices herein provided to be given by the Insurer to the Lender in connection with this policy and this Lender's Loss Payable Endorsement shall be mailed to or delivered to the Lender at its office or branch at PER ENDORSEMENT NO. 14 or, if none be specified, at its head office at PER ENDORSEMENT NO. 14.

ATTACHED TO POLICY NO. ST260 07 69 OF NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA. ISSUED TO OMEGA CHEMICAL CORPORATION, ET AL
AGENCY AT LOS ANGELES, CALIFORNIA DATE *12:01 A.M. ON DECEMBER 18, 1990
*(ENDORSEMENT EFFECTIVE DATE)

EXCEPT FOR THE SUBSTITUTION OF THE TERM "THIS INSURER" FOR THE TERM "THE COMPANY", THE FOREGOING WORDING IS THE SAME AS THAT SHOWN AS APPROVED: BOARD OF FIRE UNDERWRITERS OF THE PACIFIC, CALIFORNIA BANKERS' ASSOCIATION, COMMITTEE ON INSURANCE.

ENDORSEMENT NO. 14-A
PAGE NO. 2 OF 2 PAGES.
FORM 438BFU

BY: 
(AUTHORIZED REPRESENTATIVE)
STARR TECHNICAL RISKS AGENCY, INC.

V. CHARACTERISTICS OF HAZARDOUS WASTES HANDLED AT THE FACILITY.

A. Waste Identification Of Hazardous Wastes Handled At Facility.

The waste presently accepted at the OMEGA facility can be characterized broadly as organic solvents and chemicals; and aqueous wastes with organic waste constituents. The primary business of the facility is, and will continue to be, the recycling of industrial and commercial hazardous and nonhazardous wastes to recover useful products. The complete list of hazardous wastes that OMEGA intends to accept under the terms and conditions of its Part B Permit is included in Appendix B and Appendix L which is the Part A submitted to DHS and EPA. Wastes may be received at the site manifested under a single waste designation, or may have any combination of the designations included in Appendix B. The listing of these wastes does not connote that they are coming or will be coming to the site. Only that the facility has the capability to handle these wastes at the approximate quantities listed.

Because State and Federal waste types often do not correspond, separate, overlapping lists for EPA and DHS waste code designations are provided in Appendix B. Also, the basis for hazard designation and hazardous properties are provided for each waste for which this information is available.


Wastes presently are received at the facility in containers and bulk shipments and are unloaded either at the Drum Storage Unit or into facility storage/ treatment tanks to await further processing. These wastes must have prior approval before being accepted at Omega's facility. Prior approval requires the generator submit a signed Waste Profile Form (see Figure V-1) and when required an appropriate sample of incoming waste. The accepted wastes when they arrive at the facility must undergo pre acceptance and incoming load sampling and analysis in accordance with Omega's Waste Analysis Plan (see Appendix C). The various types of waste treatment equipment and procedures that are currently used or planned to handle, store, and process these accepted hazardous wastes are described in Section VI "Major Waste Management Devices used at the Facility".

These wastes arrive at the Omega site in containers and bulk truckloads. After manifest checking and load sampling, analysis, and approval according to the procedures in the Omega's Waste Analysis Plan (see Appendix C), these wastes are unloaded into the appropriate Container Storage Area or into an appropriate storage tank. All bulk materials that arrive at facility are pumped from the authorized tankers and vacuum trucks to an appropriately designed holding tank. This transfer is done through compatible pumps and hoses. These wastes are then scheduled for treatment in the proper Waste Treatment Unit or transfer to other off-site facilities for further treatment or disposal. The types of waste management and processing equipment that are or will be used to handle, store, and treat the various hazardous wastes are described in Section VI Major Waste Management Devices.

The processes that produce these wastes are from a wide assortment of manufacturing and industrial processes. These commercial practices generate the wastes listed above.

Sources of these wastes are from the following industries.

- Food and Kindred Products
- Textile Mill Products
- Lumber and Wood Products
- Furniture and Fixture Products
- Paper and Allied Products
- Printing and Publishing
- Chemicals
- Petroleum Refining
- Rubber and Plastics



Leather
Primary Metal
Fabricated Metal
Transportation Equipment
Machinery
Electrical and Electronic
Medical and Optical

ACUTE AND EXTREMELY HAZARDOUS WASTE

Acute and Extremely hazardous or designated as containing toxic contaminants that qualify the waste as an Extremely Hazardous Waste will not be processed at the facility. Omega will only act as a transfer agent for generators to another off-site facility capable and permitted to handle these types of wastes. Prior to accepting and transferring this waste to an appropriately permitted facility, Omega will work with the generator to obtain an Extremely Hazardous Waste Permit as required in California Regulations Title 26-66570. The ultimate off site facility will be designated as the treatment site. Omega will only be a transfer site.

NON ACCEPTABLE WASTES

Wastes that specifically are not accepted at the site include radioactive materials, infectious materials, explosives, municipal garbage/refuse, polychlorinated biphenyls (PCBS) regulated under the Toxic Substances Control Act (TSCA), and dioxin-containing wastes (i.e, EPA Nos. F020, F021, F022, F023, F026, F027, and F028).

ACCEPTABLE WASTES AND TYPICAL TREATMENT METHODS

- A. The highest priority is to recycle all wastes back to the original generator's commercial use specifications and/or other end user requirements by removing through various treatment processes the contaminants in the waste stream from the original desired product.

A large amount of the following codes will fall under this category.

Federal Hazardous Waste Codes:

D001, D002, F001, F002, F003, F005, K009 to K030, K094, K095, K096, K083, K085, K103, K104, K105, K048, K049, K050, K051, K052, K062, K086, K084, K101, K102, and all the U Series .

California Hazardous Waste Codes:

211, 212, 213, 214, 311, 331, 341, 343, 451, 461, and 541.

- B. If the waste material has little economic value for recycling or has a complex range of contaminants making the recycling process uneconomic, then waste will be processed to either reduce its hazardous characteristics by removing a waste component quantity that would eliminate one or more hazard category. The resultant waste material could then be handled or treated by a method to eliminate any long term hazardous condition.

An example would be the distillation of trace organics from waste water. The resultant waste water could then be treated and distilled to high purity for use in industrial uses such as boiler or cooling tower water make up. Another method would be the precipitation of trace metals from either organic or inorganic liquids. The resultant organic liquid could then be used for a fuel use.

The following codes would primarily fall under this type of treatment process:

Federal Waste Codes:

D004, D005, D006, D007, D008, D009, D010, D011, F006, F008, F010, F012, F019, K002 to K008.

California Waste Codes:

133, and 134.

- C. The next type of methods used would be the neutralization and reaction of various waste streams. This method eliminates the hazard category or reduces the category to a much lower level.

An example would be the adjustment of acid and alkaline solutions to a pH of 7 where the acidic and alkali component is changed into an inorganic salt which can be physically removed from the solution. Another method of this type would be the reaction of reactive wastes under controlled conditions to change the structure of the hazardous molecule to a less hazardous condition.

Federal Waste Codes:

F008, F010, F011, F020, and F021.

California Waste Codes:

123, 181, 352, 561, 751, and 113.

- D. A fourth method is use the inherent thermal value of the organic waste material and process it into an acceptable fuel for use in industrial boilers and furnaces at sites which are permitted by the appropriate state and federal agencies.

Federal Waste Codes:

D001, D002, K048, K049, K050, K051, K052, and K086.

California Waste Codes:

221, 241, 251, 252, 352, 461, and 491.

This method would only use the above types of waste for fuel. These wastes are listed because they are ignitable, corrosive, or reactive - unless produces toxic gas upon reaction. None of the fuels to be used in this process will contain any constituents that are contained in Code Federal Regulations 40 Appendix VIII list.

- E. A fifth method is to destroy the organic component through a thermal destruction process such as incineration. This method would require Omega to process and blend the waste into an acceptable form and type for the various off-site incineration facilities.

Federal Waste Codes:

D001, D002, D003, D012, D013, D014, D015, D016, D017, F020, F021, F022, F027, K001, K031 to K043, K097, K098, K084, K101, K102, P001 to P122, and all the U Series.

California Waste Codes:

241, 251, 252, 272, 311, 331, 341, 343, 351, 352, 451, 461, 491, 541, 561, 741, and 751.

- F. A sixth method is to prepare the waste for disposal at an off-site land repository facility. These wastes would include the following:

Federal Waste Codes:

F028

California Waste Codes:

181, 512, and 513

- G. A seventh method is the biological treatment of waste. This method would use a variety of anaerobic and aerobic micro organisms to reduce the organic wastes to their natural or basic elements such as water and carbon dioxide.

A.1 Recyclable Wastes

The OMEGA facility is capable of managing a wide variety of organic wastes through either recycling or use as a supplemental fuel. Most of these wastes arrive at the site manifested under a few common EPA waste codes, such as D001 (ignitable waste) or F001-FOO5 (halogenated and non-halogenated solvents). However, generators are obligated to include waste numbers for minor constituents, waste contaminants, or wastes which may no longer be present (i.e., "derived-from" wastes). For example, metal contaminant designations (e.g., D005-D008) and uncommon EPA-listed "P" and "U" wastes may be used to identify incoming wastes acceptable for on-site treatment. Because the potential waste code variations for wastes that may be accepted at the facility are impossible to predict, the list of acceptable waste designations in Appendix B is all inclusive. In actuality, some of the waste codes may never be received.

Solvent wastes accepted at the facility are generated from activities such as metal cleaning and degreasing, machining, and paint/coating manufacture and use. Industrial categories that best describe these activities include:

Examples of representative types of waste solvents that can be expected to be received at the facility are as follows:

PAINT INDUSTRY (Primarily oxygenated solvents and hydrocarbon solvents with paint related solids)

| | | |
|---------------------------|------------------------|-----|
| Waste solvent composition | Toluene | 40% |
| (by volume): | Acetone | 20% |
| | Methyl ethyl ketone | 20% |
| | Isopropyl alcohol | 15% |
| | Dirt, organic pigments | 5% |

Specific gravity ($H_2O = 1.00$ 60°F): 0.85-0.95; pH: 7; Flash point: 28 °F

ELECTRONICS INDUSTRY (can be chlorinated or fluorinated solvents such as 1,1,1-trichloroethane, 1,1,2-trichloro 1,2,2-trifluoroethane)

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| | | |
|---------------------------|--------------------|-----|
| Waste solvent composition | Pure component | 90% |
| (by volume): | Nonhazardous resin | 10% |

Specific gravity ($H_2O = 1.00$ 60 °F): 1.3 - 1.5; pH: 2 - 10; Flash point: None

METAL CLEANING Industry (solutions of chlorinated hydrocarbons)

| | | |
|---------------------------|--------------------|-----|
| Waste solvent composition | Perchloroethylene | 85% |
| (by volume): | Dirt, soil | 15% |
| | or | |
| | Methylene chloride | 80% |
| | Dirt, soil | 20% |

Specific gravity ($H_2O = 1.00$ 60 °F): 1.1 - 1.45; pH: 3 - 9; Flash point: None

PRINTING INDUSTRY

| | | |
|---------------------------|-------------------|-----|
| Waste solvent composition | Perchloroethylene | 75% |
| (by volume): | N-Butyl Alcohol | 15% |
| | Ink Resin | 10% |

Specific gravity ($H_2O = 1.00$ 60 °F): 1.1 - 1.45; pH: 5 -8; Flash point: None

REFRIGERATION AND AIR CONDITIONING INDUSTRY

| | | |
|---------------------------|------------------------|-----|
| Waste solvent composition | Trichlorofluoromethane | 80% |
| (by volume): | Oil | 15% |
| | Water | 5% |

Specific gravity ($H_2O = 1.00$ 60 °F): 1.1 - 1.45; pH: 2 -8; Flash point: None

Other representative types of organic solvents that are received from an assortment of industries include butyl cellosolve, methanol, xylene, butyl acetate, ethylene dichloride, mineral spirits, and heptane.

OTHER WASTE PROCESSING CAPABILITIES AT THE EXISTING AND PROPOSED FACILITIES

1. Wiped Film Distillation, Batch Distillation, Reactor Systems and Treatment Units

2. Evaporation

Waste water that is contaminated with only non-volatile hazardous waste material which can be reduced to a smaller and more manageable volume by evaporation. This method removes the water from the waste and leaves behind a slurry of non-volatile residues.

This residue can then be further processed by through incineration and/or disposal in landfills. This reduces the total amount of material that must be disposed of in a proper manner. This evaporation method is located in the processing and recycling area shown in Figure II-5,II-6.

3. Consolidation

Some unrecycleable waste materials are generated, especially by small generators, in small, unmanageable and inappropriate amounts that can not be sent to an authorized landfill or incineration site without additional handling and consolidation. These wastes may need to be either repackaged in appropriate containers, segregated into compatible groups and/or consolidation into workable amounts in order to assure the proper shipment to and handling by the landfill or incineration facilities. This method is performed in specific area of the diked storage area.

4. Solidification/Stabilization

Wastes that have no economic value for recycling and the wastes residuals from Omega's processing systems, are solidified, in drum containers, with a solidification material similar to cement dust or diatomaceous coagulant. This waste solidification will then render a solid like material that can be packaged in a DOT certified drum for disposal at a permitted landfill or incineration site.

The drums or material from tanks that need to be solidified are brought to the solidification area for processing. The personnel are all wearing appropriate protective gear. The drums are cut open using an air operated drum deheader. The waste material is removed from the container and mixed with compatible solidification material so that the resultant product is completely and effectively solidified. This material is repackaged in an appropriate container and placed back in a proper storage area.

Through this stabilization/solidification process the four primary goals of treating hazardous waste for ultimate disposal are attained:

- (1) Improved the handling and physical characteristics of the waste.
- (2) To decrease the surface area across which transfer or loss of contained pollutants can occur.
- (3) To limit the solubility of any pollutants contained in the waste.
- (4) To detoxify contained pollutants.

These stabilized wastes would then be packaged in appropriate containers and sent to an authorized landfill or incineration facility. This method is done in the identified area of the storage system.

5. Fuel Production

Some wastes because of their inherent energy value should be burned as fuel and therefore avoiding wasteful disposal in landfills. With the proper blending and adjustment through chemical and physical means some waste material can be made available to certain approved facilities for such burning. These facilities include cement kilns and similar operations. These facilities are licensed by state and federal agencies to accept wastes meeting the requirements of these agencies for burning. Waste oil and alcohols for example fall within this grouping.

6. Neutralization

Some wastes especially acids and alkalis can be neutralized through a combination of physical and chemical operations to form mineral salts and water. This waste water rendered non hazardous can often be disposed of through public sanitation system or the waste water which contains on inorganic

non-volatile component can be evaporated to leave behind the inorganic salt that no longer qualifies as hazardous waste.

There are a variety of neutralization methods that can be used to transform a hazardous waste into a less or non-hazardous waste.

An example of proper neutralization technique is the following:

Through prior process compatibility determinations, a specific waste has been designated for the batch neutralization process. Personnel wearing proper protective garments and equipment will move the waste container(s) to the neutralization area (See VI Waste Management Devices- Waste Water Treatment Units and Methods).

The waste will have a treatment method described for the waste to be followed by the treating personnel. This treatment method will have been signed off as to being correct both by plant manager and laboratory manager or his designated subordinate.

The treating personnel will then place the waste in a process unit that is compatible with the waste. At the proscribed rate amounts of a dilute alkali solution will be added to the acid solution to adjust and raise the pH to a neutral level of 7.0. In the case of an alkali waste, dilute amounts of an acid solution will be added to lower the pH to 7.0.

When the process has been completed the product will be returned to the storage area in a proper container and the batch processing information will be logged onto its waste control sheet.

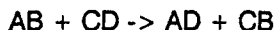
7. Reactions

There are four types of reactions of organic compounds that can be classified:

Acid-Base: This method is previously described in the neutralization method.

Substitution: In this type of reaction two compounds form two new compounds. The cation of one reactant combines with anion of the other reactant.

An example-



Two higher hazardous wastes such as AB and CD are reduced to non-hazardous or lower hazardous characteristic type products such as AD and CB.

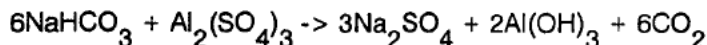
Addition-elimination:

Oxidation and Reduction: The characteristic feature of an oxidation-reduction reaction is a transference of electrons from one substance to another. The substance that gives up its electrons is called a reducing agent. It contains the atoms which are oxidized, that is, have lost electrons. The substance that gains the electrons is called the oxidizing agent. It contains the atoms which are reduced, that is, have gained electrons.

These various reactions are to reduce or eliminate the hazardous potential of the various hazardous wastes.

This type of reaction is used in the formation of Carbon Dioxide in fire extinguishers.

Sodium bicarbonate and aluminum sulfate are stored as separate aqueous solutions or as powders within the extinguisher. When mixed together, they form carbon dioxide.



8. Thermal Treatment of Hazardous Wastes

This permit application covers only acceptance of hazardous waste that is consolidated and adjusted and then shipped to an authorized incineration facility other than Omega at Whittier.

Supplemental Fuels Blending - Organic-bearing wastes that cannot be recycled, but have a sufficient energy content and a suitable composition, are/will be accepted for blending into a supplemental fuels waste that can be burned at off-site permitted facilities.

Some wastes can be used as fuels in authorized boilers or furnaces or because of regulations and rules by EPA and DHS they are forbidden to be accepted at landfill facilities. These wastes will be adjusted to meet the requirements of these off-site incineration facilities. The waste will be accumulated in the storage area when the quantity is appropriate they will be manifested and shipped to permitted hazardous waste incineration facilities.

9. Biological Treatment Methods

Many wastes including waste waters contaminated with organic components can be reduced through anaerobic and aerobic micro organisms to their basic molecular levels such as organics reduced to carbon dioxide and water. Many complex compounds can biologically be reduced to their elemental nature making the resultant product non hazardous.

A.2 Facility-Generated Wastes

The overwhelming majority of facility-generated wastes are, and will continue to be, the byproducts of solvent recycling activities. These waste streams include dilute aqueous waste of low BTU value, still bottom residuals, and non-recyclable organic (primarily halogenated solvent) wastes. Presently, these wastes are manifested off-site for use as supplemental fuels or for destructive incineration; other options, including on-site treatment, may be used in the future. Other sources of facility-generated wastes include laboratory wastes that are accumulated in a 55-gallon drum and contaminated water or waste captured in secondary containment areas. The types and quantities of facility-generated wastes that were manifested off-site in 1989 are summarized on Table V-1. Additional types and composition of wastes are listed in Figure V-2 Hazardous Wastes Compositions

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**TABLE V-1
TYPICAL TYPES OF WASTES GENERATED BY OMEGA**

Generator: Omega Recovery Services
Address: 12504 E. Whittier Blvd
Whittier, CA 90602

Date: September 15, 1989

Contact/Phone

EPA Waste Code(s): D001, F001, F002, F003, & F005

EPA ID No. CAD042245001

Source: Industrial Solvent Recycling

Qualification Analysis for Lebec.

| Organics | | Heat Content | 10,700 | Btu's /lb |
|-------------------------|-------|-------------------------|---------------|------------------|
| Acetone | 1.9% | Viscosity | 25 | cp |
| Isopropyl Alcohol | 5.1% | Solids | 9 | % volume |
| Methylene Chloride | 1.5% | Sulfur | 0.2 | % Wt. |
| Methyl Ethyl Ketone | 3.5% | Nitrogen | <0.1 | % wt. |
| Tetrahydrofuran | 0.3% | Halogens | 4.4 | % wt. as Cl |
| 1,1,1 Trichloroethane | 2.5% | Aqueous Extraction | 7 | pH |
| Trichloroethylene | 0.7% | Water (separated phase) | 2 | % volume |
| Methyl Isobutyl Ketone | 1.7% | Ash | 2.04 | %wt. |
| Toluene | 7.2% | Specific Gravity | 0.90 | gr/ml |
| Butyl Acetate | 2.7% | PCBs | <50 | PPM |
| Glycol Ether PM Acetate | 0.6% | | | |
| Ethyl Benzene | 2.7% | | | |
| Xylene | 16.0% | | | |
| Cyclohexanone | 0.3% | | | |
| C9-C10 Alkyl Benzenes | 5.2% | | | |
| Tributyl Phosphate | 4.7% | | | |
| C6-C16 Aliphatics | 43.4% | | | |
| Benzene | <0.1% | | | |

Metals

| | | | | | |
|----|------|-----|----|------|-----|
| Pb | <100 | ppm | Ba | <100 | ppm |
| Zn | 400 | ppm | Ti | 200 | ppm |
| Cr | <100 | ppm | Fe | 200 | ppm |
| Se | <200 | ppm | Cd | <100 | ppm |
| V | <100 | ppm | As | <200 | ppm |

B WASTE ANALYSIS PLAN

OMEGA has developed a comprehensive Waste Analysis Plan (WAP) for the OMEGA facility to ensure that wastes are identified properly prior to acceptance, are evaluated at the time of delivery, and are monitored during processing. A copy of the WAP is provided in Appendix C. A brief overview of this document is provided in the following sections. However, the reviewer should read the WAP in its entirety to understand fully the waste characterization procedures practiced at the facility.

The procedures set forth in the WAP are designed to ensure that OMEGA is in compliance with all EPA and DHS requirements for the sampling and analysis of wastes accepted at the facility. A copy of the WAP is available on-site at all times. The plan is reviewed periodically (approximately every year) to confirm that the waste analysis procedures described therein are accurate and current.

Pre-Acceptance Procedures

With certain exceptions, waste generators that desire to ship wastes to OMEGA first must provide: 1) chemical and physical data requested on a Waste Profile Sheet (WPS), or equivalent form, 2) a representative sample(s) accompanied with a properly completed Certification of Representative Sample, or equivalent form, and 3) other supporting documentation necessary to assist in the identification of the waste. All waste identification information is maintained in files at the facility. OMEGA or a contract laboratory verifies the WPS data by performing requisite confirmatory analyses on the representative sample(s). After comparing the data supplied by the generator with that obtained by onsite analyses, the OMEGA Technical Manager, Laboratory Manager, or their designee determines the acceptability of the waste based on the permit conditions for the facility and the availability of the proper waste management technique.

Waste Sampling

With certain exceptions, wastes entering the facility are sampled and analyzed for mandatory and supplemental analyses, as required, to identify and confirm the acceptability of the waste for targeted storage/treatment units. Bulk load samples are taken as soon as the truck enters the facility, whereas samples of containerized wastes are not taken until the containers have been off-loaded at the Drum Storage Unit. Once in drum storage, containers are sampled, analyzed, and/or inspected prior to further processing. Specific sampling procedures depend on both the nature of the material and the type of containment. At a minimum, the sampling methods and equipment used by OMEGA personnel for specific materials correspond to those referenced in 40 CFR 261, Appendix 1.

TABLE V-2

Hazardous Wastes Manifested Off-Site from the OMEGA Facility in Calendar Year 1989

| DHS Code | Waste Description | Quantity |
|----------|---|-------------|
| 134 | Aqueous solutions with total organic residues less than 10% | 19,300 gal |
| 211 | Halogenated solvents | 1,600 gal |
| 251 | Still bottoms with halogenated organics | 47,245 gal |
| 252 | Other still bottom wastes | 665,000 gal |
| 352 | Other organic solids | 120 tons |

Sampling of small containers (e.g., drums, cartons, and other small units) varies with the nature of the waste material. For liquids, the sampling device of choice is either a Coliwasa or open tube sampler to draw a full vertical section. Light, dry powders and granules generally are sampled with a tube to obtain a vertical core. Heavier solids may be sampled by trier or shovel, or by coring with heavy tubing.

For tank trucks, tanks, or large containers, a Coliwasa or open-tube sampler is used when possible. However, it may be necessary to use a weighted bottle or bomb sampler to allow sampling of various depths. Tank sediments are sampled from a bottom sampling valve, as necessary, when not readily sampled from above. Storage/treatment tanks and associated piping have strategically located sampling ports that allow in-storage or in-process waste sampling.

Laboratory samples typically are held for a period of three months in storage cabinets in an on-site warehouse located on the facility. This allows for sample retesting if the data need to be reconfirmed, or if a problem arises with a generator's waste stream during this period. At the end of three months (as monitored by dates marked on the sample containers), the samples are commingled in collection drums and sent off-site for treatment/disposal. Most sample wastes are suitable for blending and use as supplemental fuels.

Waste Analysis

Three groups of analyses may be used at the facility to identify each waste and to indicate the most appropriate means of storage/treatment. They are mandatory analyses, unique supplemental analyses, and supplemental analyses using standard techniques. Mandatory analyses, to which all preacceptance and incoming waste loads are subject, as applicable, include basic screening procedures to ensure that the waste is the same as described on the WPS and manifest and to ensure that the proper waste management technique is used. Supplemental analyses are performed at the discretion of the Technical Manager/Laboratory Manager (or designee) to further identify the waste. Most tests are performed in accordance with standard, EPA-recognized procedures, including those referenced in EPA's Test Methods for Evaluating Solid Waste (SW -846) and the American Public Health Association's Standard Methods for the Examination of Water and Wastewater. Other tests have been improvised for certain waste handling processes when standard techniques were found to be lacking or inadequate.

Facilities Processes And Design Capacity

Prior to any decision of process treatment of the hazardous waste brought to Omega's facility. All waste must be identified as to its constituents and the hazard category or combination of hazard categories that it falls within. Waste compatibility and process compatibility is important to determine before any treatment process or storage of the waste is performed. The potential for incompatibility of wastes in storage and processing must be known.

If conclusive information is not known or available on storage and process compatibility, a controlled testing of storage and process parameters of the waste in small amounts will be done in the laboratory to determine the characteristics of the waste under the predicted operating and storage conditions. In general, the following steps would be used at Omega's facility to determine storage and process compatibility.

- A. Request from the generator as much information as possible about the waste, since the information required on the waste manifest is very general and of limited use in determining operating compatibility. The generator would be asked to fill out Omega's Hazardous Waste Profile in Figure V-1. Whatever the generator can not fill out or is unknown will be tested by Omega in its laboratory or certified DHS Laboratory.

- B. If a waste has not been handled previously at the facility, it will be analyzed and processed tested by use of a representative sample. The information obtained through these procedures will verify the generator's information and determine the proper treatment and conditions for handling the waste.
- C. The process and storage compatibility will be determined and attached to the internal documents on the specific waste. The decision tree for this process is included in Waste Analysis Plan Appendix C.

Records on all received and processed waste material are kept in bound notebooks and in a computerized data base . These records include:

- a. Physical and chemical characteristics of waste received.
- b. Waste identification and handling data.
- c. Production records on processed waste.
- d. Initial Waste evaluation.
- e. Product analysis.
- f. Omega's waste analysis.

The majority of the wastes handled by this facility are designated as Hazardous waste. These wastes are primarily flammable waste products of an organic nature.

The facility also handles a smaller amount of the waste material designated as Corrosive ~~and Reactive~~ ^{DRO} and Toxic wastes. There is also handled, on occasion, some waste materials that have various designation such as TCLP toxic.

B. Methods used for the identification of hazardous waste.

The Methods used for the identification of the various hazardous wastes are shown in Table V-1 which lists the Waste Name and appropriate EPA and DHS waste codes , the Test parameter , Analytical Method, and Equipment required.

The appropriate level of analysis that is required for the various types of wastes is described in the Waste Analysis Plan in Appendix C.

C. Waste Analysis Plan for Omega Recycling at Whittier Facility.

Omega has developed an extensive Waste Analysis Plan for its facility at Whittier. This plan was developed to insure that all wastes and samples coming to the facility are properly identified and evaluated prior to acceptance and are handled in safe and environmentally proper treatment method .

A synopsis of the Waste Analysis Plan is outlined :

1. Identification of Hazardous Waste Prior to Acceptance.

Each waste shipment that passes initial inspection will be sampled and analyzed. We sample all waste shipments. The analysis of waste shipments does not always include measuring all the parameters used in our initial review of the generator's Waste Profile characterization. We select a subset of these to measure known as "key parameters", so we can

- 1) Obtain the best indication of waste treatability within given time and labor constraints.

- 2) Identify any ignitable, reactive, or incompatible wastes that may be present.

The key parameters are selected based on

The need to identify any restricted wastes

Waste characteristics that affect treatment process performances

The ignitability, reactivity, or incompatibility of the wastes

Those parameters that best indicate waste characteristics change.

Sampling

The sampling procedures have been developed by first identifying the wastes' physical/chemical properties and means of containment, e.g. tanker truck. Appropriate representative sampling techniques, devices, and containers that are compatible with wastes to be sampled. Any special waste handling requirements will be used based on literature, work history, and generator information.

Wastes arriving in 55 gallon drums are sampled at midlevel in the drum through the bung opening. Each drum is sampled and identified.

Tanker trucks will be sampled through access ports in the tanks. Various ports on the truck will be sampled to confirm samples are representative of waste.

(b) Methods

Quality Assurance Methods and protocol for evaluations are included in Appendix C.

2. Identification of Hazardous Waste after Acceptance.

A record of all received waste material (both bulk and in drums) is kept in a bound Waste Container Log Book. Each individual drum is identified by code. This code can be traced back to specific manifest and customer. Every container is labeled and analyzed according to need to verify contents to incoming approved Waste Profile from customer. This data is then placed in a computerized data base for ease of reference and as a back up to the original written record. All incoming waste material is identified and recorded in the Log Book as to the type and quantity (Appendix C).

4. Methods and techniques are reviewed at our monthly supervisor's meetings.
5. The waste analysis plan is reviewed on annual basis to insure conformance with current regulations and rules. It is reviewed should any major piece of legislation be passed and signed into law to insure that Omega is conforming to the current and most recent legislation.

WASTES ACCEPTED AT FACILITY WHICH ARE EXEMPTED FROM MANIFEST AND REPORTING REQUIREMENTS

Omega accepts Chlorofluorocarbon refrigerants that have been exempted from the manifesting and RCRA requirements by both EPA and DHS. The letters exempting this type of waste are shown in Figure V-3 a letter from the DHS to EPA stating that DHS does not consider CFC refrigerants regulated under State of California

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regulations. Figure V-4 is excerpt from Federal Register exempting CFC type refrigerants from the RCRA requirements.

OMEGA RECOVERY SERVICES
WASTE DATA PROFILE **NO B**

GENERATOR INFORMATION

Generator Name: _____

Technical Contact _____ Phone No. () _____

Emergency Contact _____ Phone No.() _____

Generator USEPA ID #: _____ State ID : _____

Address: _____

City: _____ State: _____ Zip: _____

PICK UP INFORMATION

Special pick up requirements or location : _____

GENERAL WASTE DESCRIPTION

Name of Waste: _____

Process generating Waste: _____

Quantity Generated: _____ Unit _____ Per (Year/Month) _____

SHIPPING INFORMATION

EPA Waste Codes: _____

State Waste Codes: _____

DOT Shipping Name: _____

DOT Hazard Class: _____

DOT UN/NA #: _____ RQ(pounds) _____

METHOD OF SHIPMENT

Drums: Type/Size _____ Bulk: Type/Size _____

Transportation requirements: _____

Special Needs: _____

RECERTIFICATION REQUIREMENTS

This waste data information must be recertified (ie updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the waste change or if the generating process changes, a new Waste Data Profile must be submitted for approval prior to shipment.

OMEGA RECOVERY SERVICES

WASTE DATA PROFILE

NO B

REGULATORY COMPLIANCE

OSHA Listed Compounds: Indicate Actual Value, in ppm or 0 or NA for Not Applicable or LT for less than or GT for greater than regulatory concentration.

| | | | |
|---------------------------------------|--|-----------------------------|--|
| Acrylonitrile(vinyl cyanide) | | Inorganic arsenic | |
| 4-Nitrobiphenyl | | Coke oven emissions | |
| Methyl chloromethyl ether | | 1,2-dibromo-3-chloropropane | |
| 3,3'-Dichlorobenzidine (and its salt) | | Asbestos | |
| Benzidine | | alpha-Naphthylamine | |
| Ethyleneimine | | bis-Chloromethyl ether | |
| 2-Acetylaminofluorene | | beta-Naphthylamine | |
| N-Nitrosodimethylamine | | Benzene | |

The EPA land disposal restriction regulations (40 CFR 268) apply to these materials, under the following categories:

- ☐ Solvent/dioxin (See attach. 1)
- ☐ California list, specifically (See Attach.2)
- ☐ "First Third" list (See Attach. 3)
- ☐ "Second Third" list (See Attach.4)
- ☐ "Third Third" list (See Attach.5)

This waste is either a non-wastewater or a wastewater type. Check ONE ☐ Non-Wastewater ☐ Wastewater

Does the waste contain any of the following: Please circle or check the appropriate category.

| | | | | | |
|------------------|----------------------------|----------------------------|---------------------------|----------------------------|----------------------------|
| Radioactive | <input type="checkbox"/> Y | <input type="checkbox"/> N | Polymerizable | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| Infectious | <input type="checkbox"/> Y | <input type="checkbox"/> N | Pyrophoric | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| Water Reactive | <input type="checkbox"/> Y | <input type="checkbox"/> N | Air Reactive | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| Explosive | <input type="checkbox"/> Y | <input type="checkbox"/> N | Shock Sensitive | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| Oxidizer | <input type="checkbox"/> Y | <input type="checkbox"/> N | Reactive Sulfide | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| Reactive Cyanide | <input type="checkbox"/> Y | <input type="checkbox"/> N | Polychlorobiphenyls (PCB) | <input type="checkbox"/> Y | <input type="checkbox"/> N |

CHEMICAL COMPOSITION (Must add up to 100%)

| Chemical Name (Generic) | CASRN | Concentration (Unit/Vol/Wt) | RQ (lbs) |
|-------------------------|-------|-----------------------------|----------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

OMEGA RECOVERY SERVICES

WASTE DATA PROFILE

NO B

PROPERTIES OF WASTE

| | | | |
|--|--------------|-------------------------------|-------------|
| Color | | Odor | |
| Physical State | Gas | Liquid | Solid |
| Phases | Single Layer | Double layer | Multi-layer |
| Specific Gravity | | Viscosity (CPS@25C) | |
| pH | | Melting Point F | |
| Flash Point | | Boiling Point F | |
| Water (wt%) | | Sulfur (Wt %) | |
| BTU's per pound | | Suspended Solids (Wt %) | |
| Halogen Content(Iodine, Bromine, Chlorine, Fluorine) | | Vapor Pressure (mmHg at Temp) | |
| Ash Content (Wt %) | | Cyanide % | |
| Additional Information | | | |

ELEMENTAL ANALYSIS: TCLP INORGANICS(MG/L)

Indicate Actual Value, or 0 (Use LT for less than or GT for greater than regulatory concentration)

| | | | | | |
|------|---------------------|--|------|---------------------|--|
| D004 | Arsenic (5.0 mg/l) | | D008 | Lead (5.0 mg/l) | |
| D005 | Barium (100.0 mg/l) | | D009 | Mercury (0.2 mg/l) | |
| D006 | Cadmium (1.0 mg/l) | | D010 | Selenium (1.0 mg/l) | |
| D007 | Chromium (5.0 mg/l) | | D011 | Silver (5.0 mg/l) | |

TCLP ORGANICS (MG/L)

Indicate Actual Value, or 0 (Use LT for less than or GT for greater than regulatory concentration)

| | | | | | |
|------|---------------------------------|--|------|------------------------------------|--|
| D018 | Benzene (0.5 mg/l) | | D032 | Hexachlorobenzene (0.13 mg/l) | |
| D019 | Carbon Tetrachloride(0.5 mg/l) | | D032 | Hexachlorobutadiene (0.5 mg/l) | |
| D020 | Chlordane (0.03 mg/l) | | D013 | Lindane (0.4 mg/l) | |
| D021 | Chlorobenzene (100.0 mg/l) | | D014 | Methoxychlor (10.0 mg/l) | |
| D022 | Chloroform (6.0 mg/l) | | D035 | Methyl Ethyl Ketone (200.0 mg/l) | |
| D023 | o-Cresol (200.0 mg/l) | | D036 | Nitrobenzene (2.0 mg/l) | |
| D024 | m-Cresol (200.0 mg/l) | | D037 | Pentachlorophenol (100.0 mg/l) | |
| D025 | p-Cresol (200.0 mg/l) | | D038 | Pyridine (5.0 mg/l) | |
| D026 | Cresol (200.0 mg/l) | | D039 | Tetrachloroethylene (0.7 mg/l) | |
| D016 | 2,4-D (10.0 mg/l) | | D015 | Toxaphene (0.5 mg/l) | |
| D027 | 1,4-Dichlorobenzene (7.5 mg/l) | | D040 | Trichloroethylene (0.5 mg/l) | |
| D028 | 1,2-Dichloroethane (0.5 mg/l) | | D041 | 2,4,5-Trichlorophenol(400.0 mg/l) | |
| D029 | 1,1-Dichloroethylene (0.7 mg/l) | | D042 | 2,4,6- Trichlorophenol(2.0 mg/l) | |
| D030 | 2,4-Dinitrotoluene (0.13 mg/l) | | D017 | 2,4,5-TP Silvex (1.0 mg/l) | |
| D012 | Endrin (0.02 mg/l) | | D043 | Vinyl Chloride (0.2 mg/l) | |
| D031 | Heptachlor (0.008 mg/l) | | | | |

OMEGA RECOVERY SERVICES
WASTE DATA PROFILE **NO B**

TREATMENT CERTIFICATIONS

Please provide the appropriate treatment specifications as per 40 CFR 268 for each waste code and subcategory codes for the identified waste cited in this waste profile. If a waste fits the definition of more than one characteristic code, it carries multiple codes and must be treated to meet the treatment standard for each characteristic.

| Constituent | Treatment Standard | CCW | CCWE |
|-------------|--------------------|-----|------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Use Addendum Sheet for additional constituents.

Please provide any additional information that may be required for the proper treatment of cited waste in this waste data profile.

REQUIRED PROTECTIVE EQUIPMENT AND PROCEDURES

Please attach all Material Safety Data Sheets, analysis reports, handling precautions, additional hazardous support information, data, and comments.

SAMPLE SUBMITTED: Any sample submitted must have a chain of custody record attached to the sample.

ACKNOWLEDGEMENT

I hereby certify and warrant that the information supplied on this form and on any attachments or supplements represents a complete and accurate identification and description of this waste material, its constituents and its known or suspected hazards. I further certify and warrant that this information is the result of an analysis of a representative sample of the waste obtained and analyzed in accordance with testing procedures of the U.S. Environmental Protection Agency or state agency or from the knowledge of the waste materials.

PRINT OR TYPE NAME: _____ DATE: _____

SIGNATURE: _____ TITLE: _____

ACCEPTANCE BY OMEGA: ACCEPTANCE LETTER WAS SENT TO GENERATOR

PRINT OR TYPE NAME: _____ DATE: _____

SIGNATURE: _____

FIGURE V-2



PATCHEM LABORATORIES

2205 First St. #108 • Simi Valley, CA 93065 • (805) 581-9006

Customer: Omega Recovery Services
12504 E. Whittier Blvd.
Whittier, CA 90602

Attention: Mr. Greg McKim

Sample Date: 10-1-90

Report Date: 10-23-90

Sample I.D.: 9010-4003

Subject: Colortech Graphic Inc. Sample - TCLP

Sample Location: 315 South Flower Street

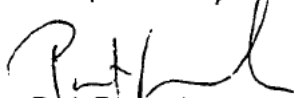
Method: Sample was analyzed per EPA *Test Methods for Evaluating Solid Waste, Physical/Chemical Method* (SW-846).

Results:

| PARAMETER | EPA METHOD | DETECTION LIMIT | ANALYSIS |
|-----------|------------|-----------------|-------------|
| Arsenic | 7060 | 0.05 mg/L | < 0.05 mg/L |
| Barium | 7080 | 0.1 mg/L | < 0.1 mg/L |
| Cadmium | 7130 | 0.02 mg/L | < 0.02 mg/L |
| Chromium | 7190 | 0.05 mg/L | 0.17 mg/L |
| Lead | 7420 | 0.02 mg/L | 1.84 mg/L |
| Mercury | 7471 | 0.05 mg/L | < 0.05 mg/L |
| Selenium | 7740 | 0.1 mg/L | < 0.1 mg/L |
| Silver | 7760 | 0.02 mg/L | < 0.02 mg/L |

Comments: Sample was prepared per Method 3010 of SW-846 for metals analysis, after TCLP extraction.

Respectfully Submitted,



Pat Brueckner
Chemist



FIGURE V-2 A

PATCHEM LABORATORIES

2205 First St. #108 • Simi Valley, CA 93065 • (805) 581-9006

Customer: Omega Recovery Services
12504 E. Whittier Blvd.
Whittier, CA 90602

Attention: Mr. Greg McKim

Sample Date: 10-1-90 Sample I.D.: 9010-4003 (Page 2 of 3)

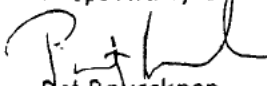
Subject: Colortech Graphic Inc. Sample (315 South Flower Street) - TCLP

Method: Sample was analyzed per EPA Method 8240/8270 of *Test Methods for Evaluating Solid Waste, Physical/Chemical Method* (SW-846).

Results:

| PARAMETER | DETECTION LIMIT | ANALYSIS |
|-----------------------|-----------------|-------------|
| Benzene | 0.05 mg/L | < 0.05 mg/L |
| Carbon Tetrachloride | 0.05 mg/L | < 0.05 mg/L |
| Chlordane | 0.05 mg/L | < 0.05 mg/L |
| Chlorobenzene | 0.05 mg/L | < 0.05 mg/L |
| Chloroform | 0.05 mg/L | < 0.05 mg/L |
| o-Cresol | 0.05 mg/L | < 0.05 mg/L |
| m-Cresol | 0.05 mg/L | < 0.05 mg/L |
| p-Cresol | 0.05 mg/L | < 0.05 mg/L |
| Cresol | 0.05 mg/L | < 0.05 mg/L |
| 2,4-D | 0.05 mg/L | < 0.05 mg/L |
| 1,4-Dichlorobenzene | 0.05 mg/L | < 0.05 mg/L |
| 1,2-Dichloroethane | 0.05 mg/L | < 0.05 mg/L |
| 1,1-Dichloroethylene | 0.05 mg/L | < 0.05 mg/L |
| 2,4-Dinitrotoluene | 0.05 mg/L | < 0.05 mg/L |
| Endrin | 0.05 mg/L | < 0.05 mg/L |
| Heptachlor | 0.05 mg/L | < 0.05 mg/L |
| Hexachlorobenzene | 0.05 mg/L | < 0.05 mg/L |
| Heptachlorobutadiene | 0.05 mg/L | < 0.05 mg/L |
| Lindane | 0.05 mg/L | < 0.05 mg/L |
| Methoxychlor | 0.05 mg/L | < 0.05 mg/L |
| Methyl Ethyl Ketone | 0.05 mg/L | 7200 mg/L |
| Nitrobenzene | 0.05 mg/L | < 0.05 mg/L |
| Pentachlorophenol | 0.05 mg/L | < 0.05 mg/L |
| Pyridine | 0.05 mg/L | < 0.05 mg/L |
| Tetrachloroethylene | 0.05 mg/L | < 0.05 mg/L |
| Toxaphene | 0.05 mg/L | < 0.05 mg/L |
| Trichloroethylene | 0.05 mg/L | 64.0 mg/L |
| 2,4,5-Trichlorophenol | 0.05 mg/L | < 0.05 mg/L |
| 2,4,6-Trichlorophenol | 0.05 mg/L | < 0.05 mg/L |
| 2,4,5-TP Silvex | 0.05 mg/L | < 0.05 mg/L |
| Vinyl Chloride | 0.05 mg/L | < 0.05 mg/L |

Respectfully Submitted,



Pat Brueckner
Chemist

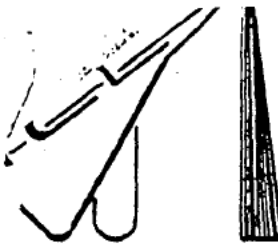


FIGURE V-2 B

PATCHEM LABORATORIES

2205 First St. #108 • Simi Valley, CA 93065 • (805) 581-9006

Customer: Omega Recovery Services
12504 E. Whittier Blvd.
Whittier, CA 90602

Attention: Mr. Greg McKim

Sample Date: 10-1-90

Report Date: 10-23-90

Sample I.D.: 9010-4003 (Page 3 of 3)

Subject: Colortech Graphic Inc. Sample - TCLP

Sample Location: 315 South Flower Street

Method: Sample was analyzed per EPA *Test Methods for Evaluating Solid Waste, Physical/Chemical Method* (SW-846).

Results:

| PARAMETER | ANALYSIS |
|------------------|-------------|
| Color | Dark Grey |
| Physical State | Liquid |
| Specific Gravity | 0.920 g/ml |
| pH | 7.6 units |
| Flash Point | > 70 deg. C |
| % Water | 41 % |
| BTU | 8560 BTU/lb |
| Ash | 9.6 % |
| Odor | Strong |
| Melting Point | N/A |
| Boiling Point | 62 deg. C |
| Sulfur | 0.2 % |
| Suspended Solids | 85 mg/L |
| % Cyanide | 0.005 % |

Respectfully Submitted,

Pat Brueckner
Chemist

Example Fuel Blend

COMPOSITION OF OMEGA WASTE STREAM

16-Nov-87

CREATING A FUEL FOR OMEGA CHEMICALS COFIRING.

MINIMUM AVERAGE HEATING VALUE: - 8,000 BTU/LEM.

| COMPONENT | HHV Btu/lbm. | HHV Btu/gal | SPEC GRAV (RHO): | VOL. FRAC A _i | GALLONS PER 100,000 GALB | A _i *(HHV) _i |
|-------------------------|-----------------|----------------|---------------------|-----------------------------|-----------------------------|------------------------------------|
| METHYLENE CHLORIDE | 2,291 | 25,251 | 1.320 | 0 | 0.00 | 0 |
| ACETONE | 13,295 | 87,922 | 0.792 | 0.05 | 5,000.00 | 4,396 |
| METHYL-ETHYL KETONE | 14,620 | 98,272 | 0.805 | 0.023 | 2,300.00 | 2,260 |
| 1,1,1 TRICHLOROETHANE | 2,969 | 33,195 | 1.339 | 0 | 0.00 | 0 |
| 1-BUTANOL | 15,844 | 107,134 | 0.810 | 0 | 0.00 | 0 |
| HEXANE | 20,675 | 113,940 | 0.660 | 0 | 0.00 | 0 |
| TETRACHLOROETHENE | 1,641 | 22,239 | 1.623 | 0 | 0.00 | 0 |
| TOLUENE | 18,441 | 133,965 | 0.870 | 0 | 0.00 | 0 |
| OIL #2 AND #3 | 19,000 | 142,785 | 0.900 | 0 | 0.00 | 0 |
| ETHANOL | 12,770 | 84,131 | 0.789 | 0.25 | 25,000.00 | 21,033 |
| ISOPROPANOL | 14,260 | 93,590 | 0.786 | 0.027 | 2,700.00 | 2,527 |
| ETHYL ACETATE | 10,994 | 82,620 | 0.900 | 0.35 | 35,000.00 | 28,917 |
| ISOBUTYL ACETATE | 12,653 | 92,974 | 0.860 | 0.2 | 20,000.00 | 18,595 |
| WATER | 0 | 0 | 1.000 | 0.1 | 10,000.00 | 0 |
| MINERAL SPIRITS | 19,840 | 132,531 | 0.800 | 0 | 0.00 | 0 |
| KEROSENE | 19,840 | 132,531 | 0.800 | 0 | 0.00 | 0 |
| ----- | | | | | | |
| AVERAGE HHV (BTU/GAL) = | | 77,728 | 1 | 1 | 100,000 | 77,728 |
| ----- | | | | | | |
| AVERAGE HHV = | 77,728 Btu/gal | | | | | |

FIGURE V-2 C

Example Fuel Blend

COMPOSITION OF OMEGA WASTE STREAM

18-Nov-87

CREATING A FUEL FOR OMEGA CHEMICALS COFIRING.

MINIMUM AVERAGE HEATING VALUE: - 8,000 BTU/LBM.

| COMPONENT | HHV Btu/lbm. | HHV Btu/gal | SPEC GRAV (RHO) | VOL. FRAC A _i | GALLONS PER 100,000 GALB | A _i * (HHV) |
|------------------------------|-----------------|----------------|--------------------|-----------------------------|-----------------------------|------------------------|
| METHYLENE CHLORIDE | 2,291 | 25,251 | 1.320 | 0 | 0.00 | 0 |
| ACETONE | 13,295 | 87,922 | 0.792 | 0.1 | 10,000.00 | 8,792 |
| METHYL-ETHYL KETONE | 14,620 | 98,272 | 0.805 | 0 | 0.00 | 0 |
| 1,1,1 TRICHLOROETHANE | 2,969 | 33,195 | 1.339 | 0 | 0.00 | 0 |
| 1-BUTANOL | 15,844 | 107,134 | 0.810 | 0 | 0.00 | 0 |
| HEXANE | 20,675 | 113,940 | 0.660 | 0 | 0.00 | 0 |
| TETRACHLOROETHENE | 1,641 | 22,239 | 1.623 | 0 | 0.00 | 0 |
| TOLUENE | 18,441 | 133,965 | 0.870 | 0 | 0.00 | 0 |
| OIL #2 AND #3 | 19,000 | 142,785 | 0.900 | 0 | 0.00 | 0 |
| ETHANOL | 12,770 | 84,131 | 0.789 | 0.25 | 25,000.00 | 21,033 |
| ISOPROPANOL | 14,260 | 93,590 | 0.766 | 0 | 0.00 | 0 |
| ETHYL ACETATE | 10,994 | 82,620 | 0.900 | 0.35 | 35,000.00 | 28,917 |
| ISOBUTYL ACETATE | 12,653 | 92,974 | 0.880 | 0.2 | 20,000.00 | 18,595 |
| WATER | 0 | 0 | 1.000 | 0.1 | 10,000.00 | 0 |
| MINERAL SPIRITS | 19,840 | 132,531 | 0.800 | 0 | 0.00 | 0 |
| KEROSENE | 19,840 | 132,531 | 0.800 | 0 | 0.00 | 0 |
| AVERAGE HHV (BTU/GAL) = | | 77,337 | | 1 | 100,000 | 77,337 |
| AVERAGE HHV = 77,337 Btu/gal | | | | | | |

FIGURE V.2.D

Example Fuel Blend

COMPOSITION OF OMEGA WASTE STREAM

18-Nov-87

CREATING A FUEL FOR OMEGA CHEMICALS COFIRING.

| COMPONENT | HHV Btu/lbm. | HHV Btu/gal | SPEC GRAV (RHO) | VOL. FRAC Ai | GALLONS PER 100,000 GALB | Ai*(HHV) |
|-------------------------|-----------------|----------------|--------------------|-----------------|-----------------------------|----------|
| METHYLENE CHLORIDE | 2,291 | 25,251 | 1.320 | 0 | 0.00 | 0 |
| ACETONE | 13,295 | 87,922 | 0.792 | 0 | 0.00 | 0 |
| METHYL-ETHYL KETONE | 14,620 | 98,272 | 0.805 | 0 | 0.00 | 0 |
| 1,1,1 TRICHLOROETHANE | 2,969 | 33,195 | 1.339 | 0 | 0.00 | 0 |
| 1-BUTANOL | 15,844 | 107,134 | 0.810 | 0 | 0.00 | 0 |
| HEXANE | 20,675 | 113,940 | 0.660 | 0 | 0.00 | 0 |
| TETRACHLOROETHENE | 1,641 | 22,239 | 1.623 | 0 | 0.00 | 0 |
| TOLUENE | 16,441 | 133,965 | 0.870 | 0 | 0.00 | 0 |
| OIL #2 AND #3 | 19,000 | 142,785 | 0.900 | 0 | 0.00 | 0 |
| ETHANOL | 12,770 | 84,131 | 0.789 | 0.5 | 50,000.00 | 42,065 |
| ISOPROPANOL | 14,260 | 93,590 | 0.786 | 0 | 0.00 | 0 |
| ETHYL ACETATE | 10,994 | 82,620 | 0.900 | 0.4 | 40,000.00 | 33,048 |
| ISOBUTYL ACETATE | 12,653 | 92,974 | 0.880 | 0 | 0.00 | 0 |
| WATER | 0 | 0 | 1.000 | 0.1 | 10,000.00 | 0 |
| MINERAL SPIRITS | 19,840 | 132,531 | 0.800 | 0 | 0.00 | 0 |
| KEROSENE | 19,840 | 132,531 | 0.800 | 0 | 0.00 | 0 |
| AVERAGE HHV (BTU/GAL) = | | 75,113 | | 1 | 100,000 | 75,113 |

AVERAGE HHV = 75,113 Btu/gal

FIGURE V-2E

Example Fuel Blend

COMPOSITION OF OMEGA WASTE STREAM

18-Nov-87

| COMPONENT | HHV Btu/lbm. | HHV Btu/gal | SPEC GRAV (RHO) | VOL. FRAC A _i | GALLONS PER 100,000 GALS | A _i *(HHV) _i |
|-------------------------|-----------------|----------------|--------------------|-----------------------------|-----------------------------|------------------------------------|
| METHYLENE CHLORIDE | 2,291 | 25,251 | 1.320 | 0 | 0.00 | 0 |
| ACETONE | 13,295 | 87,922 | 0.792 | 0 | 0.00 | 0 |
| METHYL-ETHYL KETONE | 14,620 | 98,272 | 0.805 | 0 | 0.00 | 0 |
| 1,1,1 TRICHLOROETHANE | 2,969 | 33,195 | 1.339 | 0 | 0.00 | 0 |
| 1-BUTANOL | 15,844 | 107,134 | 0.810 | 0 | 0.00 | 0 |
| HEXANE | 20,675 | 113,940 | 0.660 | 0 | 0.00 | 0 |
| TETRACHLOROETHENE | 1,641 | 22,239 | 1.623 | 0 | 0.00 | 0 |
| TOLUENE | 18,441 | 133,965 | 0.870 | 0 | 0.00 | 0 |
| OIL #2 AND #3 | 19,000 | 142,785 | 0.900 | 0 | 0.00 | 0 |
| ETHANOL | 12,770 | 84,131 | 0.789 | 0.5 | 50,000.00 | 42,065 |
| ISOPROPANOL | 14,260 | 93,590 | 0.766 | 0 | 0.00 | 0 |
| ETHYL ACETATE | 10,994 | 62,620 | 0.900 | 0.4 | 40,000.00 | 33,048 |
| ISOBUTYL ACETATE | 12,653 | 92,974 | 0.860 | 0 | 0.00 | 0 |
| WATER | 0 | 0 | 1.000 | 0.1 | 10,000.00 | 0 |
| MINERAL SPIRITS | 19,840 | 132,531 | 0.800 | 0 | 0.00 | 0 |
| KEROSENE | 19,840 | 132,531 | 0.800 | 0 | 0.00 | 0 |
| AVERAGE HHV (BTU/GAL) = | | 75,113 | | 1 | 100,000 | 75,113 |

AVERAGE HHV = 75,113 Btu/gal

FIGURE V.2 F

Example Fuel Blend

COMPOSITION OF OMEGA WASTE STREAM

18-Nov-87

CREATING A FUEL FOR OMEGA CHEMICALS COFIRING.
OBJECTIVES:

MINIMUM AVERAGE HEATING VALUE: = 8,000 BTU/LBM.

| COMPONENT | HHV Btu/lbm. | SPEC GRAV (RHO) : | MASS FRAC A _i | GALLONS PER 100,000 GALS | A _i * (HHV) : | A _i / (RHO) : |
|-----------------------------|-----------------|----------------------|-----------------------------|-----------------------------|--------------------------|--------------------------|
| METHYLENE CHLORIDE | 2,291 | 1.320 | 0 | 0.00 | 0 | 0.000 |
| ACETONE | 13,295 | 0.792 | 0.15625 | 18,303.04 | 2,077 | 0.197 |
| METHYL-ETHYL KETONE | 14,620 | 0.805 | 0.046875 | 5,402.24 | 685 | 0.058 |
| 1,1,1 TRICHLOROETHANE | 2,969 | 1.339 | 0.125 | 8,660.00 | 371 | 0.093 |
| 1-BUTANOL | 15,644 | 0.810 | 0.003125 | 358.01 | 50 | 0.004 |
| HEXANE | 20,675 | 0.660 | 0.007812 | 1,098.18 | 162 | 0.012 |
| TETRACHLOROETHENE | 1,641 | 1.623 | 0.078125 | 4,465.81 | 128 | 0.048 |
| TOLUENE | 18,441 | 0.870 | 0.03125 | 3,332.42 | 576 | 0.036 |
| OIL #2 AND #3 | 19,000 | 0.900 | 0.28125 | 28,992.01 | 5,344 | 0.313 |
| ETHANOL | 12,770 | 0.789 | 0.0625 | 7,349.05 | 798 | 0.079 |
| ISOPROPANOL | 14,260 | 0.786 | 0.03125 | 3,608.55 | 446 | 0.040 |
| ETHYL ACETATE | 10,994 | 0.900 | 0.03125 | 3,221.33 | 344 | 0.035 |
| ISOBUTYL ACETATE | 12,653 | 0.880 | 0.015625 | 1,647.27 | 198 | 0.018 |
| WATER | 0 | 1.000 | 0.067187 | 6,233.28 | 0 | 0.067 |
| MINERAL SPIRITS | 19,840 | 0.800 | 0.03125 | 3,624.00 | 620 | 0.039 |
| KEROSENE | 19,840 | 0.800 | 0.03125 | 3,624.00 | 620 | 0.039 |
| | | | (SUM=64/64) | | | |
| AVERAGE HHV AND SPEC GRAV = | 12,418 | 0.928 | | 100,000 | 12,418 | 1.078 |

HHV(BTU/GAL) = 96,199 Btu/gal
AVERAGE DENSITY = 7.75 lbm/gal

FIGURE V-2 G

Example Fuel Blend

COMPOSITION OF OMEGA WASTE STREAM

18-Nov-87

CREATING A FUEL FOR OMEGA CHEMICALS COFIRING.

MINIMUM AVERAGE HEATING VALUE: - 8,000 BTU/LBM.

| COMPONENT | HHV Btu/lbm. | SPEC GRAV (RHO) i | MASS FRAC Ai | GALLONS PER 100,000 GAL | Ai*(HHV) i | Ai/(RHO) i |
|-----------------------------|-----------------|----------------------|-----------------|----------------------------|------------|------------|
| METHYLENE CHLORIDE | 2,291 | 1.320 | 0 | 0.00 | 0 | 0.000 |
| ACETONE | 13,295 | 0.792 | 0.05 | 5,446.80 | 665 | 0.063 |
| METHYL-ETHYL KETONE | 14,620 | 0.805 | 0.023 | 2,465.06 | 336 | 0.029 |
| 1,1,1 TRICHLOROETHANE | 2,969 | 1.339 | 0 | 0.00 | 0 | 0.000 |
| 1-BUTANOL | 15,644 | 0.810 | 0.001 | 106.54 | 16 | 0.001 |
| HEXANE | 20,675 | 0.660 | 0 | 0.00 | 0 | 0.000 |
| TETRACHLOROETHENE | 1,641 | 1.623 | 0 | 0.00 | 0 | 0.000 |
| TOLUENE | 18,441 | 0.870 | 0 | 0.00 | 0 | 0.000 |
| OIL #2 AND #3 | 19,000 | 0.900 | 0 | 0.00 | 0 | 0.000 |
| ETHANOL | 12,770 | 0.789 | 0.246 | 26,900.13 | 3,141 | 0.312 |
| ISOPROPANOL | 14,260 | 0.786 | 0.03 | 3,293.03 | 428 | 0.038 |
| ETHYL ACETATE | 10,994 | 0.900 | 0.35 | 33,552.26 | 3,848 | 0.399 |
| ISOBUTYL ACETATE | 12,653 | 0.880 | 0.2 | 19,606.46 | 2,531 | 0.227 |
| WATER | 0 | 1.000 | 0.1 | 8,627.72 | 0 | 0.100 |
| MINERAL SPIRITS | 19,840 | 0.800 | 0 | 0.00 | 0 | 0.000 |
| KEROSENE | 19,840 | 0.800 | 0 | 0.00 | 0 | 0.000 |
| AVERAGE HHV AND SPEC GRAV - | 10,965 | 0.863 | 1 | 100,000 | 10,965 | 1.159 |

HHV(BTU/GAL) = 78,990 Btu/gal
AVERAGE DENSITY = 7.20 lbm/gal

FIGURE V-2 H

Example Fuel Blend

COMPOSITION OF OMEGA WASTE STREAM

16-Nov-87

CREATING A FUEL FOR OMEGA CHEMICALS COFIRING.

MINIMUM AVERAGE HEATING VALUE: - 8,000 BTU/LBM.

| COMPONENT | HHV Btu/lbm. | SPEC GRAV (RHO) | MASS FRAC Ai | GALLONS PER 100,000 GALB | Ai*(HHV) | Ai/(RHO) |
|-----------------------------|-----------------|--------------------|-----------------|-----------------------------|----------|----------|
| METHYLENE CHLORIDE | 2,291 | 1.320 | 0 | 0.00 | 0 | 0.000 |
| ACETONE | 13,295 | 0.792 | 0.05 | 5,614.72 | 665 | 0.063 |
| METHYL-ETHYL KETONE | 14,620 | 0.805 | 0.025 | 2,762.02 | 366 | 0.031 |
| 1,1,1 TRICHLOROETHANE | 2,969 | 1.339 | 0.01 | 664.21 | 30 | 0.007 |
| 1-BUTANOL | 15,844 | 0.810 | 0 | 0.00 | 0 | 0.000 |
| HEXANE | 20,675 | 0.660 | 0 | 0.00 | 0 | 0.000 |
| TETRACHLOROETHENE | 1,641 | 1.623 | 0 | 0.00 | 0 | 0.000 |
| TOLUENE | 18,441 | 0.870 | 0 | 0.00 | 0 | 0.000 |
| OIL #2 AND #3 | 19,000 | 0.900 | 0 | 0.00 | 0 | 0.000 |
| ETHANOL | 12,770 | 0.789 | 0.13 | 14,653.78 | 1,660 | 0.165 |
| ISOPROPANOL | 14,260 | 0.786 | 0.025 | 2,828.79 | 397 | 0.032 |
| ETHYL ACETATE | 10,994 | 0.900 | 0.35 | 34,586.68 | 3,848 | 0.389 |
| ISOBUTYL ACETATE | 12,653 | 0.880 | 0.2 | 20,212.99 | 2,531 | 0.227 |
| WATER | 0 | 1.000 | 0.21 | 18,676.81 | 0 | 0.210 |
| MINERAL SPIRITS | 19,840 | 0.800 | 0 | 0.00 | 0 | 0.000 |
| KEROSENE | 19,840 | 0.800 | 0 | 0.00 | 0 | 0.000 |
| AVERAGE HHV AND SPEC GRAV - | 9,455 | 0.889 | 1 | 100,000 | 9,455 | 1.124 |

HHV(BTU/GAL) = 70,216
AVERAGE DENSITY = 7.43 lbm/gal.

FIGURE V-21

Example Fuel Blend

COMPOSITION OF OMEGA WASTE STREAM

16-Nov-87

CREATING A FUEL FOR OMEGA CHEMICALS COFIRING.

MINIMUM AVERAGE HEATING VALUE:- 8,000 BTU/LBM.

| COMPONENT | HHV Btu/lbm. | SPEC GRAV (RHO) i | MASS FRAC Ai | GALLONS PER 100,000 GALSI | Ai*(HHV) i | Ai/(RHO) i |
|-----------------------------|-----------------|----------------------|-----------------|------------------------------|------------|------------|
| METHYLENE CHLORIDE | 2,291 | 1.320 | 0 | 0.00 | 0 | 0.000 |
| ACETONE | 13,295 | 0.792 | 0.05 | 5,602.11 | 665 | 0.063 |
| METHYL-ETHYL KETONE | 14,620 | 0.805 | 0.025 | 2,755.82 | 366 | 0.031 |
| 1,1,1 TRICHLOROETHANE | 2,969 | 1.339 | 0 | 0.00 | 0 | 0.000 |
| 1-BUTANOL | 15,844 | 0.810 | 0 | 0.00 | 0 | 0.000 |
| HEXANE | 20,675 | 0.660 | 0 | 0.00 | 0 | 0.000 |
| TETRACHLOROETHENE | 1,641 | 1.623 | 0 | 0.00 | 0 | 0.000 |
| TOLUENE | 18,441 | 0.870 | 0 | 0.00 | 0 | 0.000 |
| OIL #2 AND #3 | 19,000 | 0.900 | 0 | 0.00 | 0 | 0.000 |
| ETHANOL | 12,770 | 0.789 | 0.13 | 14,620.86 | 1,680 | 0.165 |
| ISOPROPANOL | 14,260 | 0.786 | 0.025 | 2,822.44 | 357 | 0.032 |
| ETHYL ACETATE | 18,994 | 0.900 | 0.35 | 34,508.98 | 3,848 | 0.389 |
| ISOBUTYL ACETATE | 12,653 | 0.880 | 0.2 | 20,167.58 | 2,531 | 0.227 |
| WATER | 0 | 1.000 | 0.22 | 19,522.22 | 0 | 0.220 |
| MINERAL SPIRITS | 19,840 | 0.800 | 0 | 0.00 | 0 | 0.000 |
| KEROSENE | 19,840 | 0.800 | 0 | 0.00 | 0 | 0.000 |
| AVERAGE HHV AND SPEC GRAV - | 9,425 | 0.887 | 1 | 100,000 | 9,425 | 1.127 |

HHV (BTU/GAL) = 69,638
AVERAGE DENSITY = 7.41 lbm/gal.

FIGURE V-2 J

FIGURE V-2 K

Waste Fuel Constituents

| Component |
|------------------------|
| Methylene chloride |
| Acetone |
| Methyl Ethyl Ketone |
| 1,1,1 Trichloroethane |
| 1-Butanol |
| Hexane |
| Tetrachloroethene |
| Toluene |
| Oil no. 2 and 3 |
| Ethanol |
| Isopropanol |
| Ethyl acetate |
| Isobutyl acetate |
| Kerosene |
| Mineral spirits |
| Paint pigments |
| (50 percent ash) |
| Combustible solids |
| (50 percent ash) |
| Resins(20 percent ash) |
| (polymeric isocynate) |
| Soil (100 percent ash) |
| Water |

Metal analysis of a still bottoms mixture of the above constituents have shown concentrations in the range below. The metals concentration in the actual fuel are over 2 orders of magnitude less and are also presented.

| Heavy metals | Still bottoms ppm | Fuel concentration ppm |
|--------------|----------------------|------------------------------|
| Lead | 0.3 | <0.003 |
| Silver | 0.03 | <0.0003 |
| Chromium | 0.09 | <0.0001 |
| Mercury | 0.0002 | <0.0002 |
| Cadmium | 0.21 | <0.0002 |
| Barium | 0.14 | <0.0014 |
| Arsenic | 0.006 | <0.005 |
| Selenium | 0.0004 | <0.0004 |

SYSTECH CORPORATION
245 North Valley Road
Xenia, Ohio 45385
(513) 372-8077

Generator Omega Recovery Services Customer Code OCW
Address 12504 East Whittier Blvd. Source Waste solvent
Whittier, CA 90602 collection
Contact/Phone Frank Ford (213) 698-0991 Date July 1, 1987
Volume 54,000 gal/yr
EPA Waste Code(s) D001, F002
F003, F005

QUALIFICATION ANALYSIS FOR LOS ROBLES

Organics

| | | | | |
|------------------------------|--------------|-------------------------|----------------|-------------|
| <u>acetone</u> | <u>20.2%</u> | Heat Content | <u>14,000</u> | Btus/lb |
| <u>isopropanol</u> | <u>31.8%</u> | Viscosity | <u>13</u> | cp |
| <u>methylene chloride</u> | <u>0.6%</u> | Solids | <u>3</u> | % volume |
| <u>methyl ethyl ketone</u> | <u>3.9%</u> | Sulfur | <u>0.2</u> | % wt. |
| <u>1,1,1-trichloroethane</u> | <u>4.7%</u> | Nitrogen | <u><0.1</u> | % wt. |
| <u>n-butanol</u> | <u>0.1%</u> | Halogens | <u>4.3</u> | % wt. as Cl |
| <u>trichloroethylene</u> | <u>0.3%</u> | Aqueous Extraction | <u>6</u> | pH |
| <u>MIBK</u> | <u>1.2%</u> | Water (separated phase) | <u>0</u> | % volume |
| <u>toluene</u> | <u>2.3%</u> | Ash | <u><1</u> | % wt. |
| <u>butyl acetate</u> | <u>4.0%</u> | Specific Gravity | <u>0.88</u> | gr/ml |
| <u>ethyl benzene</u> | <u>1.5%</u> | PCBs | <u><50</u> | ppm |

Metals

| | | | | | | | |
|--|-----------------|----|----------------|-----|----|----------------|-----|
| <u>C₉ - C₁₆ alkyl benzenes</u> | <u>2.5%</u> | Pb | <u>200</u> | ppm | Ba | <u><100</u> | ppm |
| <u>C₅ - C₂₂ aliphatics</u> | <u>19.2%</u> | Zn | <u>100</u> | ppm | Ti | <u><100</u> | ppm |
| | <u>%</u> | Cr | <u><100</u> | ppm | Fe | <u>200</u> | ppm |
| | <u>%</u> | Cd | <u><100</u> | ppm | V | <u><100</u> | ppm |
| | <u>%</u> | As | <u><200</u> | ppm | Se | <u><200</u> | ppm |
| <u>benzene</u> | <u><0.1%</u> | | | ppm | | | ppm |

Note: organic composition presented as area percent of FID/GC plot.

Site Manager comments Based on analysis at Fredonia May 8, 1987, (Omega
Chemical).

Technical Service Director approval

Technical Service Director comments

END

I. FACILITY IDENTIFICATION

1. EPA Identification number

EPA Number CAD042245001

A Part A and Part B was originally submitted to the Department of Health Services and Environmental Protection Agency Region IX in 1980. Since then there have been submittals of amended and revised Part A's and Part B's documents to these respective agencies. A copy of the most recent modified Part A is included in the Appendix L of this document.

2. Treatment Facility Name

Omega Chemical Corporation and Omega Recovery Services which is a wholly owned subsidiary of Omega Chemical Corporation.

3. Type of facility

This facility provides off site treatment of commercial and industrial wastes both liquids and solids. This treatment is primarily accomplished by the recycling of chemicals and hazardous waste through the use of specialized treatment which includes distillation, wiped film evaporation, physical separation, dewatering, filtering, and chemical separation. The products from this recycling process are sold back to the original users and other consumers of these products. The wastes from these treatment processes is then manifested to off-site licensed facilities for use as supplemental fuels, for destructive incineration, or for disposal by other approved and licensed means.

This facility also serves as a transfer station., providing storage and consolidation for containerized and bulk wastes which are not amenable to treatment at the facility.

Omega has developed a five year program to improve the facility which would provide additional treatment capacity as well as new methods of treatment technologies for various forms of hazardous and non hazardous wastes. The proposed waste treatment systems are shown in the various appropriate sections of this Part B Operation Plan Section VI.

4. Facility Mailing Address

Omega Chemical Corporation
P.O. Box 152
Whittier, CA 90608

5. Facility Location

Omega Chemical Corporation
12504 E. Whittier Blvd.
Whittier, CA 90602

6. Phone Number

213 698 0991

7. Standard Industrial Classification

4953 Recycled Solvents and Hazardous Wastes
5161 Wholesale Distribution

OPERATION PLAN FOR HAZARDOUS WASTE RECOVERY FACILITY
WHITTIER FACILITY -- AMENDMENT January 10, 1990

Page I-2

B Operation Information

1. Legal Owner
Omega Chemical Corporation
2. Mailing Address
P.O. Box 152
Whittier, CA 90608
3. Telephone
(213) 698-0991

C. Owner of land and building

Omega Chemical Corporation

2. Mailing Address
P.O. Box 152
Whittier, CA 90608
3. Phone Number
213 698 0991

D Contact Individual

1. Dennis R. O'Meara
2. Title: President
3. Phone: (213)-698-0991
4. Work Address
12504 E. Whittier Blvd.
Whittier , Calif. 90602

E Preparation of Operation Plan

1. Firm: Omega Chemical Corporation
2. Individual: Dennis R. O'Meara
3. Title: President
4. Phone: (213) 698-0991

F. Date of DHS Instructions, October 1985

G. Certification of Preparation

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

H. Omega Chemical Corporation



Dennis R. O'Meara
President
October 29, 1990

I. Waste Minimization Certification

I hereby certify under penalty of law that personnel under my direction and supervision at this facility are undertaking specific steps in accordance with a program in place to minimize the amount and toxicity of hazardous wastes generated at this facility to a degree economically practicable and that the method utilized for the treatment, storage, or disposal of hazardous wastes is the practicable method currently available to this facility which minimizes the present and future threat to human health and the environment. I am aware that there are significant penalties for false certification, including the possibility of fine and imprisonment for flagrant falsifications.



Signature
Dennis R. O'Meara
Name
President
Title
October 29, 1990
Date

II. MAPS OF FACILITY AND SURROUNDINGS

A Series of Maps and Drawings are shown to provide the required informaton for this section of the Operation Plan

A. General Topographic Map

Area extending one mile beyond property boundaries of facility is shown on Figure II-1.

B. Map of the Whittier City Planning Department (Figure II-2)

This shows the land use designations for the site and surrounding property. An area with 2000 feet radius is drawn on the map. (Figure II-2). This site is designated as M,heavy manufacturing which is consistent with the both current and proposed operations.

There are no intakes or discharge structure on the facility except for sanitary sewer in the building.

There are no wells for underground injection of fluids.

C. Map of California Department of the Interior Geological Survey - Water Resources Division. (Figure II-3)

This map shows wells and springs in the area surrounding the Whittier facility site. An area circumscribed by a circle with a radius of 2000 feet is shown with the site in the center. There are no wells, springs, surface water bodies, drinking water wells, aqueducts or public water supply systems on site or within the described area.

Water Bodies and Surface Water that is closest to the facility is the Whittier Narrows. This is located over four miles to the northwest of the site.

D. Detailed map having the following: this is taken from the Los Angeles County Assessor's Map Book (Figure II-4):

1. Map Layout Showing

- (a) Scale (Shown on Map)
- (b) North Arrow
- (c) Date Map Completed (January 10, 1990)
- (d) Facility plus surroundings extending 2000 feet beyond the perimeter of facility.
- (e) Location of facility
 - (1) Latitude 04/03/30
 - (2) Longitude 37/59/05
 - (3) Township
 - (4) Range
 - (5) Sections
 - (6) Principal Meridian
 - (7) Assessor's Parcel Identification Numbers
 - Map Book 8170 Page 029 Parcel 004
 - Map Book 8170 Page 029 Parcel 005
 - Map Book 8170 Page 029 Parcel 015
 - Map Book 8170 Page 029 Parcel 016

- E. Drawings of Current facility showing present operations and proposed. Figure II-5,6, and 7 depict the existing and proposed facility configuration respectively. Full Scale Maps are included in the Appendix A. The following features are shown on one or both of these figures.

Scale

North Arrow

Date the Map was completed

Locations of the permanent internal roads

Security fencing and access points (see also Contingency Plan; Appendix G)

Waste storage and treatment tank identities and locations

Container storage areas

Waste treatment system locations

Location of each facility used for hazardous waste.

(a) Treatment

(b) Storage

Waste loading and unloading areas

Secondary containment structures

Buffer zones around tanks and containers holding ignitable wastes

Support buildings (e.g., office buildings, laboratory, control room, maintenance building, etc.)

Process sewage system, sewer lines and utility easements.

Surface drainage in waste management areas presently is contained within secondary containment structures

F. Land Characteristics

(a) Existing contours and elevations are shown on the U.S.G.S. map Figure II-1

(b) Proposed final contours: No significant changes to the existing contours are proposed.

(c) Whittier no longer has 100 year flood plain map. No certification that facility is not subject to a 100 year flood plain inundation has not been provided by the US Army Corps of Engineers. Federal Flood Insurance Rate Map has not been prepared for the City of Whittier. Due to the fact that it has no flood plain. This has been verified at Los Angeles County Flood Control District. The site is located in a HUD designated Flood Zone "C", in which there is no danger from flooding, an area of minimal flooding after a 500 year flood. A letter from the Los Angeles County Flood Control District is attached (Figure II-8)

(d) There are no surface waters see Map Figure II-3 also verified in USGS topographic map Figure II-1.

(e) Prevailing wind speed and direction. This is provided by a Wind Rose see Figure II-9 .

(f) Land uses and zoning. This is provided in Whittier Land Use see figure II-2. It is M-2 Zone- Heavy Manufacturing.

G Facility Characteristics

(a) Legal Boundaries see Figure II-4

(b) Location of permanent access roads see Figure II-4 and Figure II-10

The frontage road along Whittier Boulevard and southern access on Putnam Street are a concrete paved, two-laned, two-way, throughfares with concrete curbs, gutters, and parallel parking on both sides. Whittier Boulevard proper is a divided four-lane, two-way, asphalt paved roadway with concrete curbs and gutters.

- (c) There are no internal roads
- (d) Traffic associated with facility on and off site

Traffic Flow Plan

All access to the Project site will be carefully controlled. Security fences will restrict access to all areas. Visitor access will only be through the office. Entering trucks will first log-in and identify themselves and present the appropriate manifest and documents to the plant supervisor.

Access for trucks will be directed to the Putnam Street access as the preferred approach to the facility.

Approximately six trucks per day, or about one per every two hours, may be processed; therefore, traffic is not expected to be a problem.

The trucks will proceed to the truck unloading points where the material will be discharged. After which they will exit through the security gate.

(1) Traffic Pattern

Current traffic flow pattern is shown on Figure II-10.

Proposed traffic flow pattern is shown on Figure II-10

(2) Control Methods

All incoming waste vehicles will be directed by Omega employees to an appropriate loading or unloading area.

(3) Location of control signals

A traffic signal is located at Whittier and Washington Boulevard interchanges. There are stop signs at the Putnam and Washington Blvd. intersection.

(4) Type of surface and/or bearing capacity of roads.

The surface streets in the area are designed for heavy truck traffic, they are designed to handle 80,000 pound commercial vehicles.

(e) Security fencing

(1) Location

The entire Project site is surrounded by 6 foot minimum security fences. All gates to the process areas, requiring operator clearance for access, will normally be closed. In the proposed expansion this security fencing will be continued. All appropriate signs are attached to the access displaying that this is a hazardous waste facility. See Figure II-5, II-6.

(2) Type

The facility has a cyclone wire type fence and concrete block walls surrounding the entire facility. The facility operates with supervision 24 hours per day, 7 days a week. All gates are closed. They are opened by Omega personnel for movement of vehicles only.

(f) Access Control

(1) Location

Access locations are the various gates and building doors shown in (Figure II-5,II-6)

(2) Type

To the administration building access from the front is through a door. This is occupied by office personnel during day business hours. It is locked during non office hours. The gate to the operating areas is closed and supervised during operating hours. We operate 24 hours a day 7 days a week. At all other times, the facility is locked. In the office all visitors must register and sign in our guest book.

(g) Names, locations, and dimensions of past, present of the following:

(1) Treatment facilities

Present

FAT JACK - Treatment Unit T-1

Location: (Figure II-7)

Dimension: It is 36 feet wiped film processor manufactured 1979 by Pfudler. It is all stainless steel.

KIRK- Treatment Unit T-2

Location: (Figure II-7)

Dimension: 20 foot by 1 foot distillation column. It is all stainless steel.

PAUL- Treatment Unit T-3

Location: (Figure II-7)

Dimension: It is 350 Gallon pressure vessel with 30 foot by 8 inches distillation column. It is all stainless steel.

CRAIG- Treatment Unit T-4

Location: (Figure II-7)

Dimension: It is 500 Gallon pressure vessel with 20 foot by 8 inch diameter distillation column. It is all stainless steel.

NEAL- Treatment Unit T-5

Location: (Figure II-7)

Dimension: It is 50 Gallon glass lined reactor. It is manufactured by Pfudler Corporation.

JAKE- Treatment Unit T-6

Location: (Figure II-7)

Dimension: It is 13.5 feet wiped film processor manufactured 1983 by Pfudler. It is all stainless steel.

MORK- Treatment Unit T-7

Location (Figure II-7)

Dimension: It is 1000 Gallon pressure vessel with 20 feet by 1 foot diameter distillation column. It is all stainless steel.

PETE- Treatment Unit T-13

Location: (Figure II-7)

Dimension: It is 2500 Gallon Pressure vessel with 20 foot by 1 foot distillation column. It is also stainless steel.

LIQUID EXTRACTION - Treatment Unit T-9

Location: (Figure II-7)

Dimension: This unit can perform liquid liquid extraction where two different liquids can exchange both physical and chemical properties through the liquid liquid extraction method.

SOLIDS GRINDING UNIT - Treatment Unit T-16

Location (Figure II-7)

Dimension: This unit grinds compatible solid waste to a pumpable liquid form. When in a liquid form it can be treated by other treatment units or be shipped off site to another treatment facility in its liquid state.

PATRICK - Treatment Unit T-10

Location (Figure II-7)

Dimension: It is a 36 feet wiped film processor. It is all stainless steel.

Future

KIRK II - Treatment Unit T-8

Location (Figure II-7)

Dimension: 20 foot by 1 foot distillation column. It is all stainless steel.

CRAIG II - Treatment Unit T-11

Location (Figure II-7)

Dimension: It is 500 Gallon pressure vessel with 20 foot by 8 inch diameter distillation column. It is all stainless steel.

NEUTRALIZATION AND PRECIPITATION UNIT - Treatment Unit T-15

Location: (Figure II-7)

Dimension: It is oxidation reduction unit to reduce waste water organics through ultraviolet light and ozone and/or hydrogen peroxide.

PACT UNIT - Treatment Unit T-17

Location (Figure II-7)

Dimension: It is biological waste water unit to reduce all organics to carbon dioxide and water.

Treatment units - There are several tanks and processing equipment that are used as neutralization or filtering systems.

Location:

Dimension:

(2) Storage Facilities

These are all stainless steel tanks. They are all identified in Figure II-11

Present

STORAGE #A- 10000 Gallon

STORAGE #B- 10000 Gallon

STORAGE #C- 10000 Gallon

STORAGE #D- 10000 Gallon

STORAGE #E- 10000 Gallon

STORAGE #F- 10000 Gallon

Location: Figure II-11

Dimension: See Appendix D

Present

HEIDI - 5500 Gallon

JENNY - 3500 Gallon

SANDEE - 2000 Gallon

ELAINE - 2000 Gallon

CARRIE - 2000 Gallon

CONNIE - 2000 Gallon

AMY - 650 Gallon

SUSAN - 500 Gallon

PEGGY - 750 Gallon

SHEILA - 1300 Gallon

CINDY - 1200 Gallon

LINDA - 500 Gallon

DIANE - 500 Gallon

LOUDY - 500 Gallon

RAQUEL - 750 Gallon

FARRAH - 750 Gallon

Location: Figure II-11

Dimension: See Appendix D

The Following are Carbon Steel Tanks

STORAGE #1- 5,000 Gallon

STORAGE #2- 5,000 Gallon

STORAGE #3- 5,000 Gallon

STORAGE #4- 5,000 Gallon

STORAGE #5- 5,000 Gallon

Location: Figure II-11

Dimension: See Appendix D

The Following are Stainless Steel Tanks for Various Organic Type Waste

Future

STORAGE #7- 10000 Gallon
STORAGE #8- 10000 Gallon
STORAGE #9- 10000 Gallon
STORAGE #10- 10000 Gallon
STORAGE #11- 10000 Gallon
STORAGE #12- 10000 Gallon
STORAGE #13- 10000 Gallon
STORAGE #14- 10000 Gallon
STORAGE #15- 10000 Gallon
STORAGE #16- 10000 Gallon
STORAGE #17- 10000 Gallon
STORAGE #18- 10000 Gallon
STORAGE #19- 10000 Gallon

Location: Figure II-11

Dimension: See Appendix D

The Following are Pressure Tanks for the Storage of CFC's

CFC 1 - 5500 Gallon
CFC 2 - 5500 Gallon
CFC 3 - 5500 Gallon
CFC 4 - 5500 Gallon

Location: Figure II-11

Dimension: See Appendix D

The Following are Stainless Steel Tanks for Intermediate Processing of Waste Materials

Future

STORAGE #20- 750 Gallon
STORAGE #21- 750 Gallon
STORAGE #22- 750 Gallon
STORAGE #23- 750 Gallon
STORAGE #24- 500 Gallon
STORAGE #25- 500 Gallon
STORAGE #26- 500 Gallon
PROCESS 1 - 1000 Gallon
PROCESS 2 - 1500 Gallon
PROCESS 3 - 1500 Gallon
PROCESS 4 - 1500 Gallon
PROCESS 5 - 1500 Gallon

Location: Figure II-11

Dimension: See Appendix D

The following are plastic tanks for waste water treatment. They are all identified in Figure II-11. They are all above ground and diked.

Future

STORAGE TANK # 27 -8000 GALLON
STORAGE TANK # 28 -8000 GALLON
STORAGE TANK # 29 -8000 GALLON
STORAGE TANK # 30- 8000 GALLON
STORAGE TANK # 31- 8000 GALLON
STORAGE TANK # 32- 8000 GALLON
STORAGE TANK # 33- 8000 GALLON
STORAGE TANK # 34- 8000 GALLON
STORAGE TANK # 35- 8000 GALLON
STORAGE TANK # 36- 8000 GALLON

Location: Figure II-11

Dimension: See Appendix D

(3) Loading and unloading facilities associated with waste storage or treatment

These areas are located on the map Figure II-12. They are located at the closest areas to the entrances to the facility. There will be no unloading of waste material until the waste has been cleared and approved as acceptable for Omega to treat and handle. Until that time all trucks or vehicles containing waste will remain in the quarantine area (see Figure II-5,II-6).

After approval the waste material will either be pumped to an appropriate storage tank in the tank farm area if it is liquid. If it is a drum or container type that has waste substance it will be removed from the truck by either a forklift or liftgate and then palletized for storage in the drum storage area (see Figure II-5,II-6)

All of our trucks have lift gates for the loading and unloading of their cargoes. Omega will have forklifts with special attachments for handling material in drums.

In addition there will be air operated diaphragm pumps. These pumps can be used to evacuate material from tanks, tankers and drums. This method reduces the handling required for emptying containers plus the additional benefit of reducing air emissions from the transferring of waste material.

(4) Specific locations and identity of containers or tanks holding ignitable and incompatible wastes, are identified in Figure II-13. They are further identified in Section VI.

Reactive Wastes will not be received at the facility.

All the storage tanks that are designed to hold ignitable wastes shall be compatible with these types of wastes. These tanks are all located within a diked area and meet the National Fire Protections Code for materials of construction and location within a proper area. Storage of containers holding hazardous waste are identified in Figure II-5,II-6.

All storage tanks designated for corrosive type wastes will be compatible with these types of wastes. These tanks are located within a diked area and meet appropriate construction standards. They are identified in Figure II-11.

Containerized incompatible wastes will be segregated in accordance with waste types and compatibilities in their appropriate storage areas. See Section VI Containers

- (5) Equipment and container cleaning areas are identified in Figure II-5,II-6.

All equipment will be cleaned in their various operating locations. These locations are designed with diked perimeters to contain any spills or loss of waste material. The location of the equipment is identified in Figure II-7. The maintenance shop area is also a controlled area to avoid any contamination from the release of waste material.

- (6) Building - (Figure II-15)

There are four buildings

Building A is an administrative and laboratory facility.

Building B is warehouse and treatment.

Building C is boilers and cogeneration.

Building D is warehouse and office..

- (7) Containment Structures See Figure II-16

DRAINAGE

With the facility handling materials which could be potentially classified as a hazardous waste, the issue of handling surface water drainage is an area of concern, since even though the probability is remote, there exists the potential for spills of material, particularly while transferring incoming materials from trucks or railroad cars. Storage areas, particularly where drums are stored, also have a high spill potential.

Even though the water table is not close to the surface, the decision was made to cover all operating and storage areas with an impermeable coating. The traditional methods of preventing the migration of hazardous wastes in soils is to provide a layer of impermeable material such as bentonite covered with a plastic liner such as polyvinyl chloride, with provision for sampling tubes, etc. to check on the physical integrity of the barrier. This method is believed not to be suitable for this site in that many of the solvents handled, if placed in contact with materials such as bentonite make the material swell, thus reducing its physical integrity. Others of the solvents can dissolve the binders used to make polyvinyl chloride films, allowing them to disintegrate and lose physical integrity. Thus the traditional methods of controlling the in soil migration of hazardous wastes are potentially vulnerable to attack by the materials they are attempting to contain.

It is believed that this issue can best be addressed by the adoption of three key physical design criteria. These are:

- a. All piping and equipment handling or storing potential hazardous waste material must be placed above ground, and clearly visible for physical inspection at all times.
- b. All areas where the potential for spills exist must be covered by a high strength impermeable coating.
- c. Provision must be made for all areas where potentially hazardous materials are, or can be, present, to be drained in a manner such that any water falling on these areas will be

directed to a containment area where the water can be treated or neutralized before it is discharged into a sewer or allowed to follow natural drainage courses.

To contain any rainwater which would fall on the site, provision will be made for all rain which falls on operating and storage areas to be drained to the tank storage areas. All of the tanks in these areas will be elevated on legs or on structures above the surface so that they can continually be monitored for possible leakage and will be designed so that they will be restrained against flotation forces if they are empty.

Rainwater which falls on the roofs of the processing buildings and warehouse office will be collected and passed directly to the irrigation system. All other water, except that falling on planted areas and retained there, will be captured and impounded. The holding sump is designed to contain 9 inches of rain falling on the facility. The maximum amount of rainfall in 24 hours recorded in this area of Los Angeles County during the 41 year period of record, 1940 to 1981. Extrapolation to a 100 year period suggests a design rainfall of 6.4" in a 24 hour period.

Because of the large dilution of potential materials spilled on the surface by rainfall, the use of conventional materials can be considered for the rainfall containment and disposal systems.

Provision for a structure similar to an API separator will be made to separate out the rocks and floating materials, such as leaves or oils, from the rainwater. There are two treatment options. The water can either be passed through one of the distillation columns, producing distilled water, and a residue to be disposed of. The disposal system should be capable of handling 1.5\inches per day of rainfall (75\gpm) making the capacity of the holding basin equivalent to a 10.5\inch rainfall which should provide an adequate margin of safety.

Dikes are in place around the entire facility. This is to contain all rain run off and any spills. In addition, there is another dike around the major storage tanks.

(8) Buffer Zones

There are the required spaces around all storage tanks and equipment as defined in the National Fire Codes.

(9) Other structures are depicted and defined in (Figure II-5,II-6).

(a) Locations and types of:

1. Environmental monitoring stations -

The sewer discharge is monitored by the Los Angeles County Sanitation District. The emissions to the air are monitored by the South Coast Air Quality Mangement District.

All tanks and processing systems are above ground on diked impermeable concrete containment system. Since this facility is not a disposal facility but a recycling and treatment facility no other environmental monitoring equipment is present. .

2. Facilities for controlling surface drainage. The facility is diked. All drainage is channeled to a holding area. This has a sump for pumping the rain or spills to an appropriate holding tank.

3. Injection and with drawal wells

There are no injection or withdrawal well on the facility or associated with the facility.

(b) Location through facility of

1.. Power Lines.

There are power lines that bisect the facility. They are shown on the facility map in Figure II-17

2. Pipelines - None

3. Easements - None

C. Provide the following information associated with the maps.

1. The legal description of the property is

Legal Description

Lots 3,4,15, & 16 of Tract 13486, City of Whittier, Los Angeles County, California
This property is owned and controlled by Omega Chemical Corp. copy of the tax records are shown in Figure II-18 . It is located at 12504 E.Whittier Blvd., Whittier, California 90602, 200 feet in width and 440 feet in depth.

2. Estimated volume of traffic

(a) There are an average of 8 trucks coming and leaving the facility per working day.

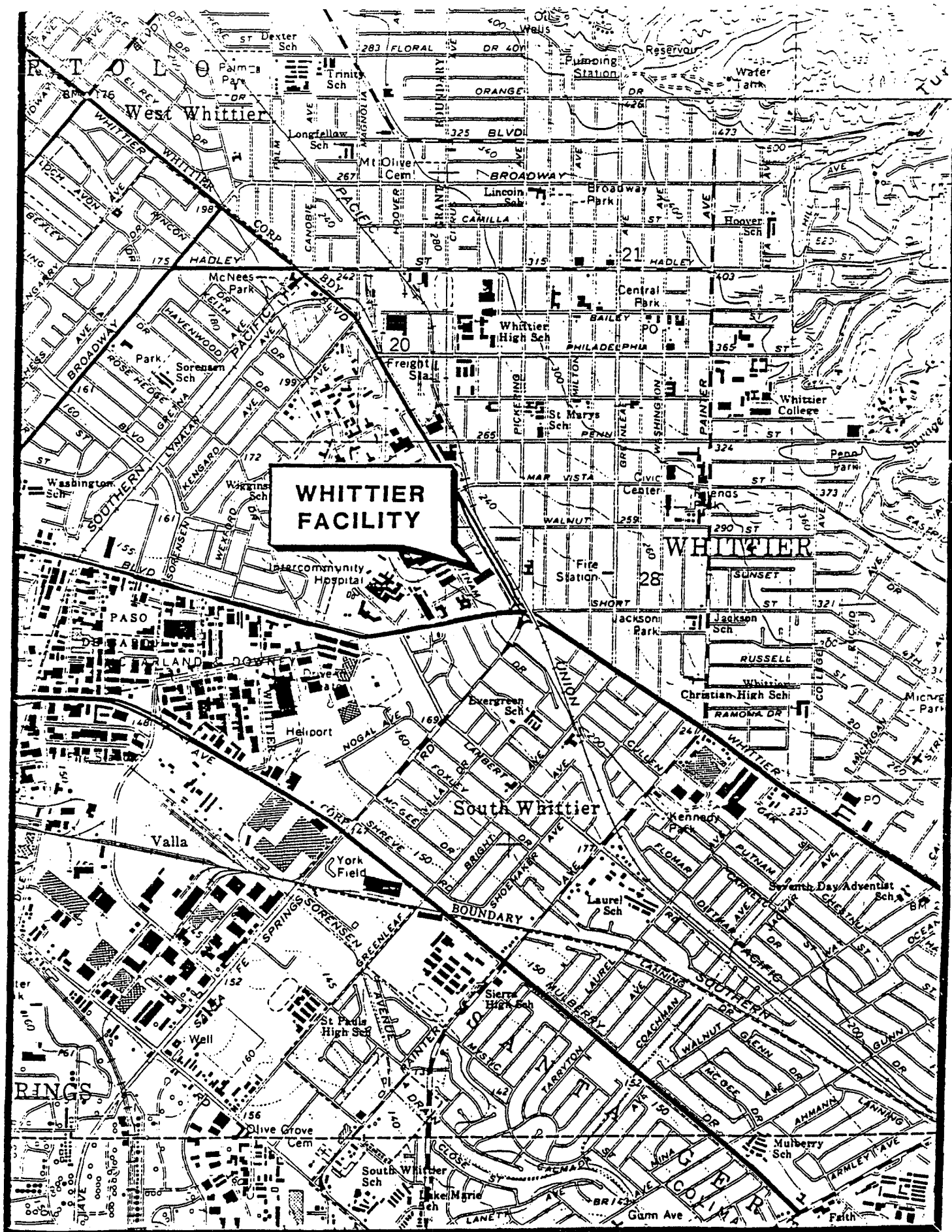
(b) These trucks range from pick up to 8000 gallon tank trucks.

3. Characteristics of permanent access roads.

(a) Concrete paved

(b) Maximum California load bearing capacity 80,000 pounds per vehicle.

4. Existing facilities - Photograph essay of current facility See Figure II-19.



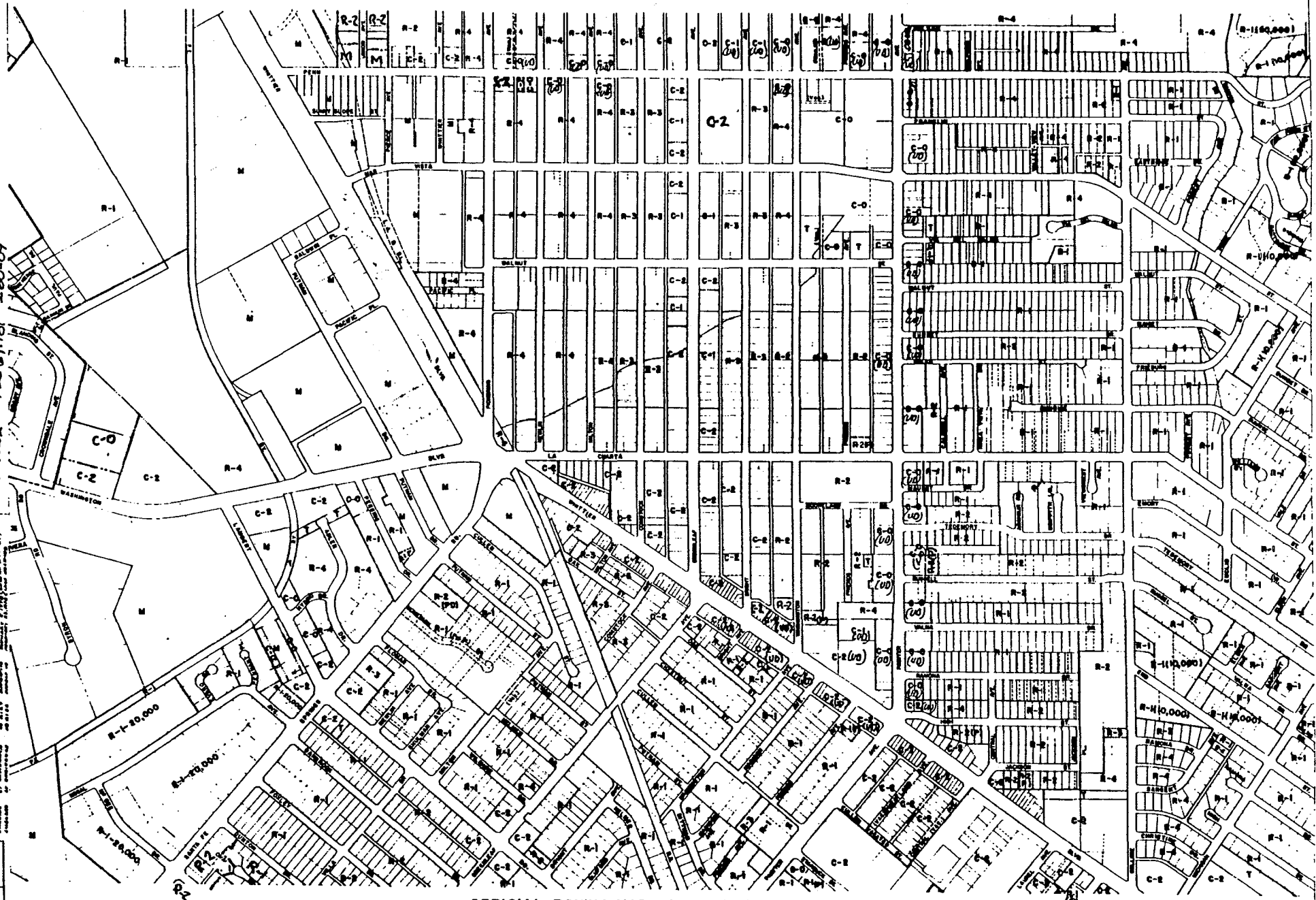
Site Location and Topographic Map
 Omega Chemical Company
 Whittier, CA

Source: Whittier, CA
 USGS 7.5 Minute Quadrangles
 1 inch = 2000 feet

ORD 2291 JAN 20, 1983 Z81
ORD 2360 OCT 25, 1983 Z81

ORD 2280 APR 23, 1982 280-05
ORD 2252 FEB 2, 1981 280-09

5 C



NOTE: INDEX MAP SHOWS LOCATION OF SECTIONAL DISTRICT MAPS AND LEGEND OF ZONE SYMBOLS

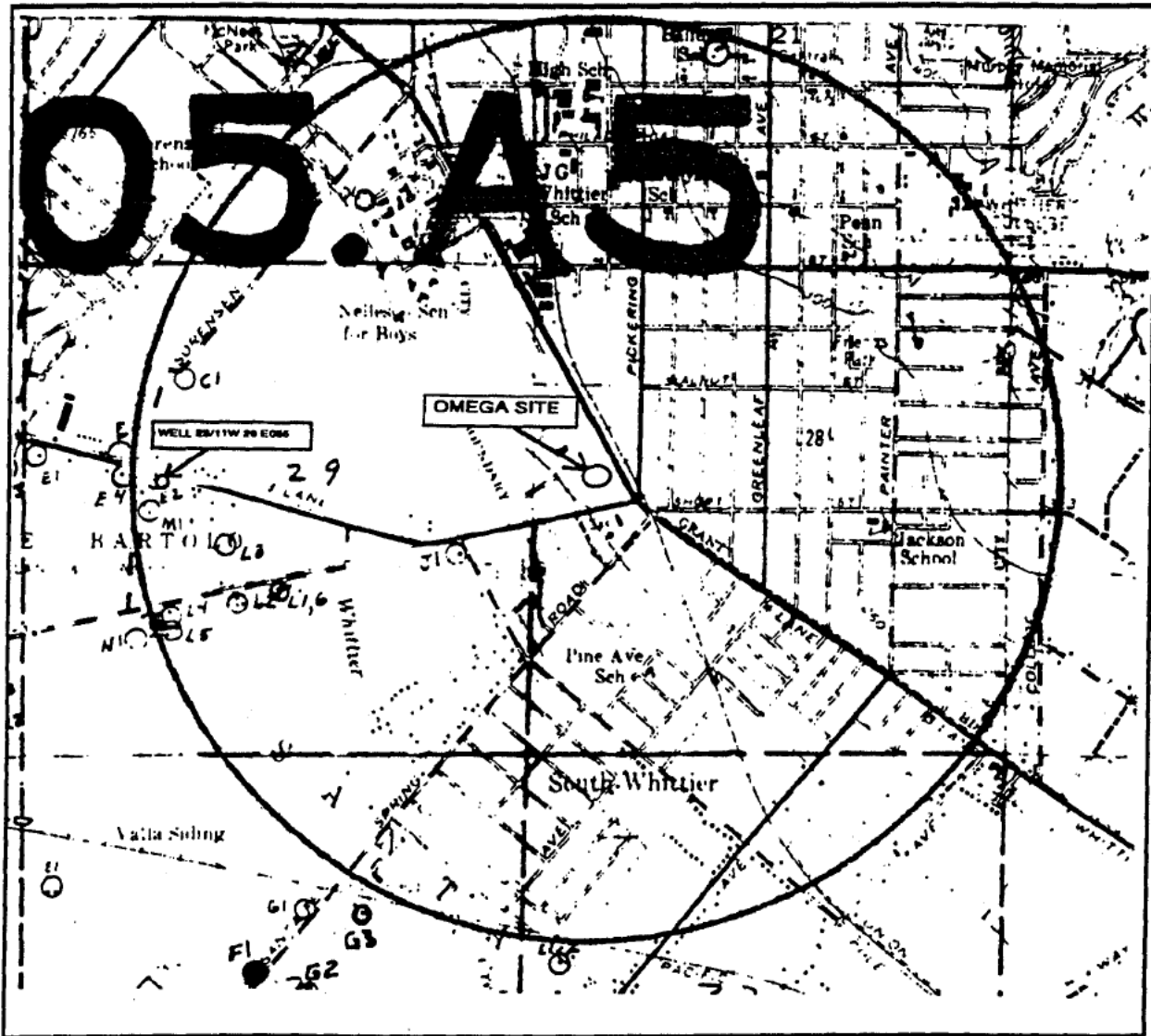
OFFICIAL ZONING MAP-CITY OF WHITTIER, CALIFORNIA
Adopted on Dec. 28, 1973 by Section 9116 of the WHITTIER MUNICIPAL CODE
SECTIONAL DISTRICT MAP



NOV '8
MAR '8

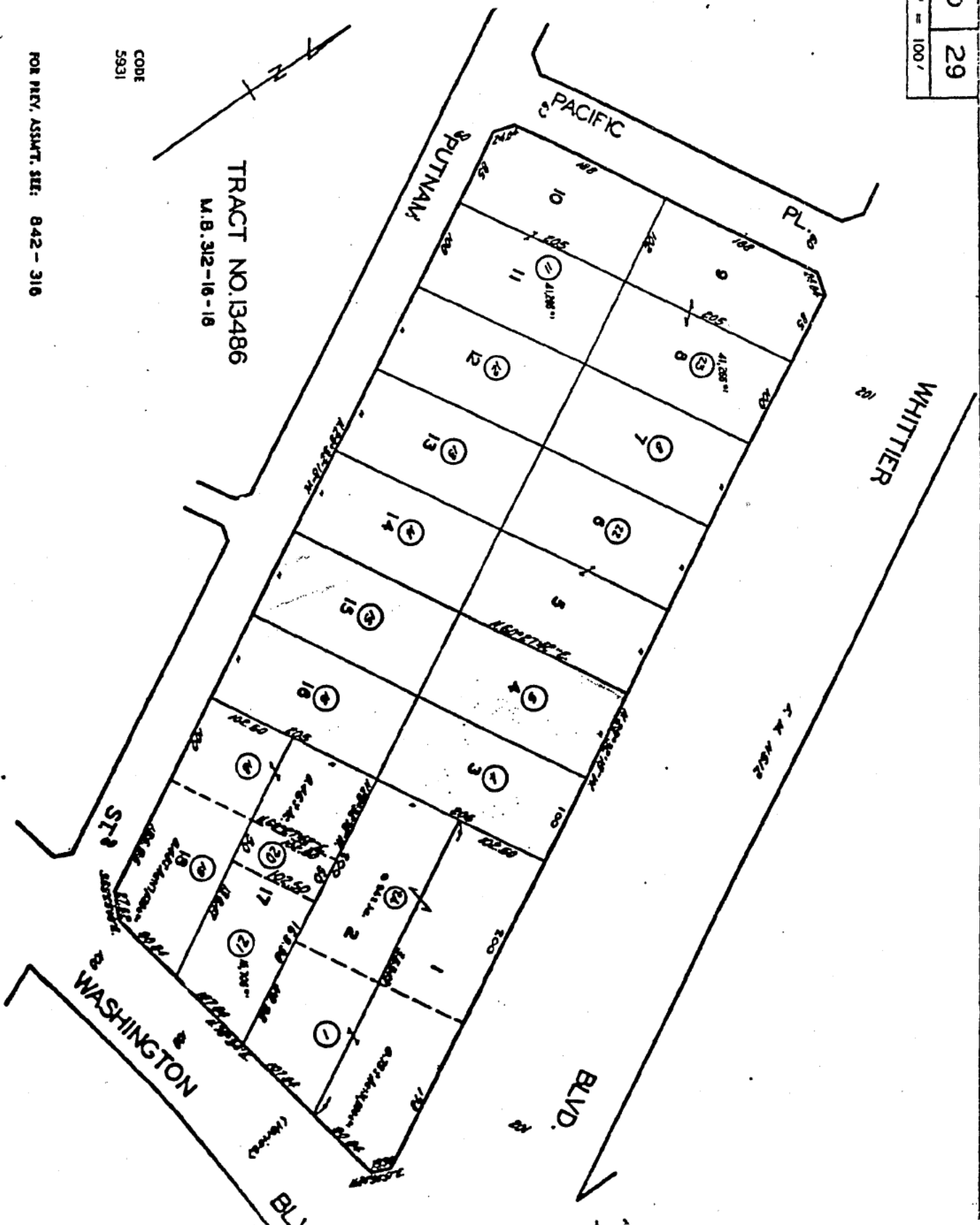
FIGURE 11-5

WELL LOCATION MAP FOR THE WHITTIER SITE WITHIN ONE MILE



SOURCE: "Well Location Map from California Water Resources Whittier Quadrangle"

This displays the wells located within one mile radius of the Omega Facility. The Well number 2S/11W 29 05E is marked. This is the only well with water data generated within 10 years.



FOR PREV. ASSTT. SEC: 842-316

CODE
5931

FIGURE II-5

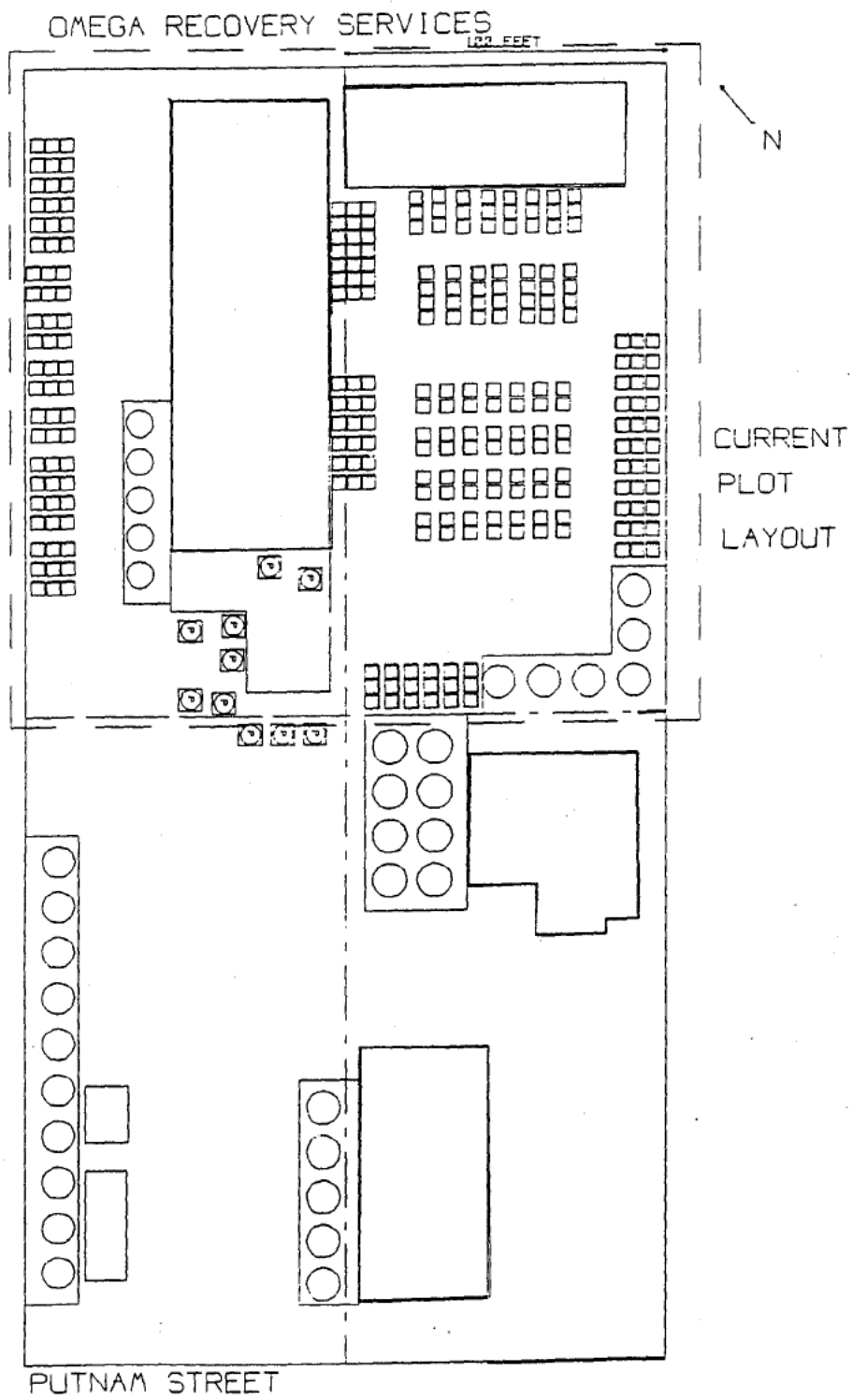


FIGURE II-6

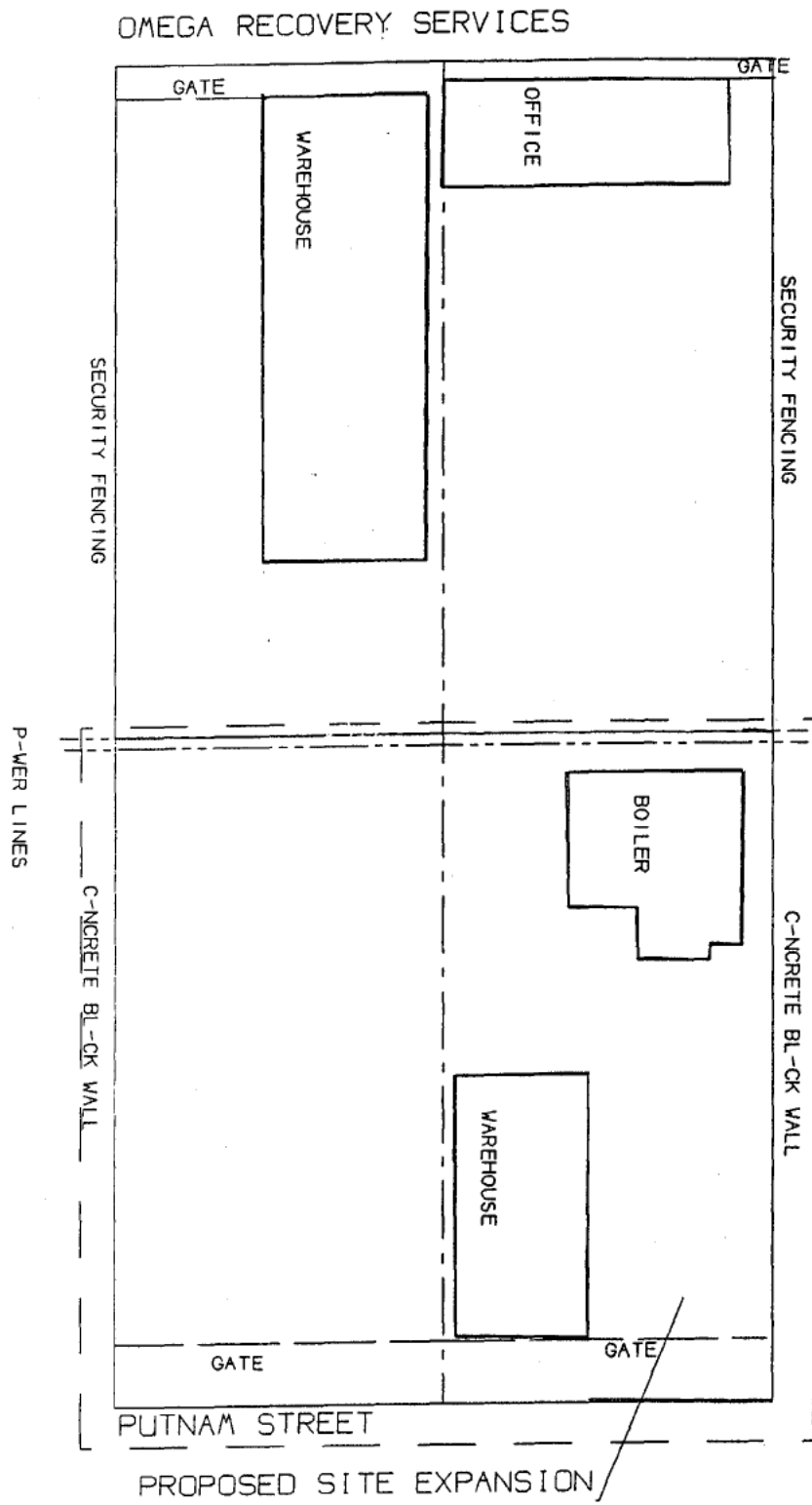
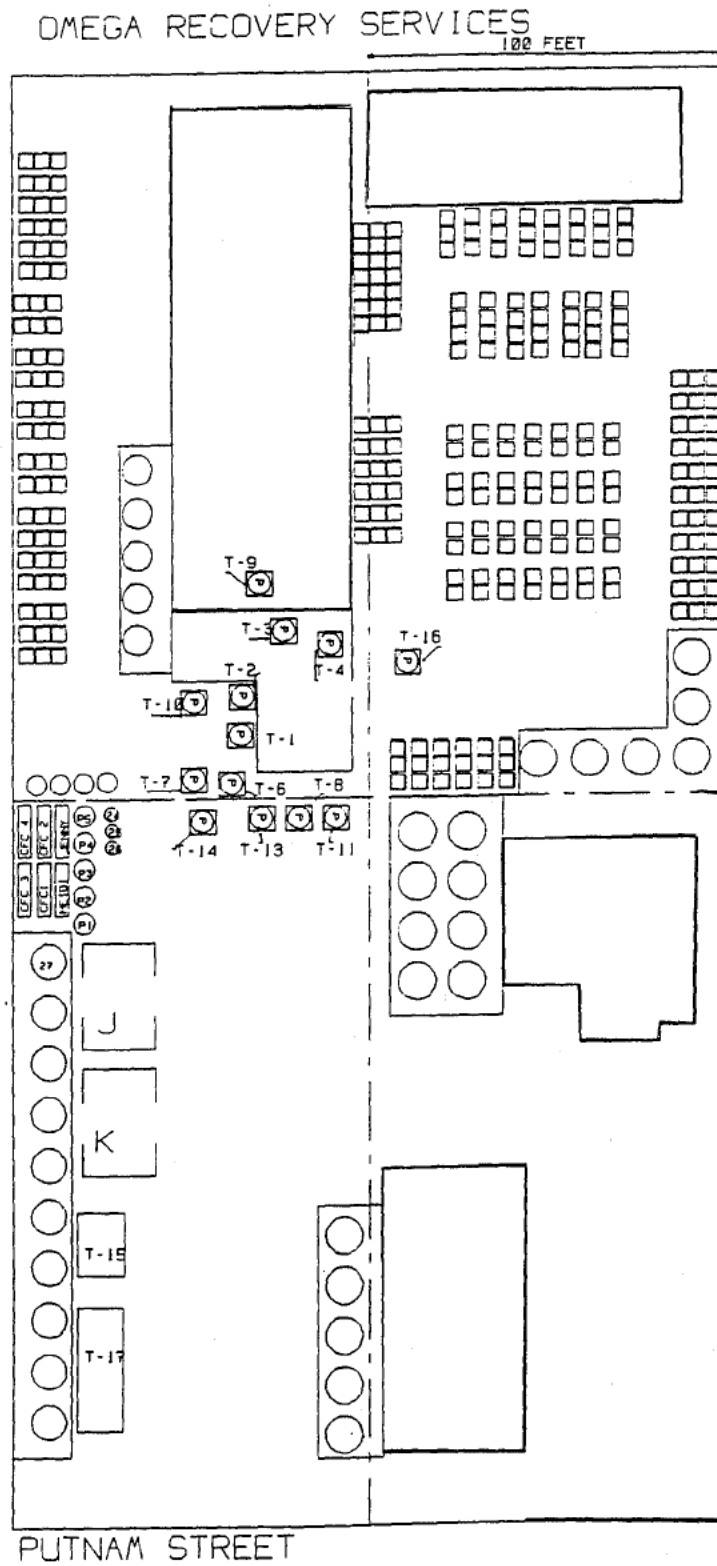


FIGURE II-7





COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (818) 458-5100

THOMAS A. TIDEMANSON, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

October 31, 1990

IN REPLY PLEASE P-4
REFER TO FILE. 2-15.93

Mr. Dennis R. O'Meara, President
Omega Recovery Services
12504 East Whittier Boulevard
Whittier, CA 90602

Dear Mr. O'Meara:

REQUEST FOR FLOOD INSURANCE INFORMATION

In response to your inquiry, the property located at 12504 East Whittier Boulevard, in the City of Whittier, is located in Flood Hazard Zone C. Properties in Zone C do not require flood insurance. This information was determined from the Federal Emergency Management Agency's Flood Insurance Rate Map No. 060169-0002B.

Enclosed is a receipt for your Check No. 00324.

Very truly yours,

T. A. TIDEMANSON
Director of Public Works

Carl L. Blum
Carl L. Blum
Assistant Deputy Director
Planning Division

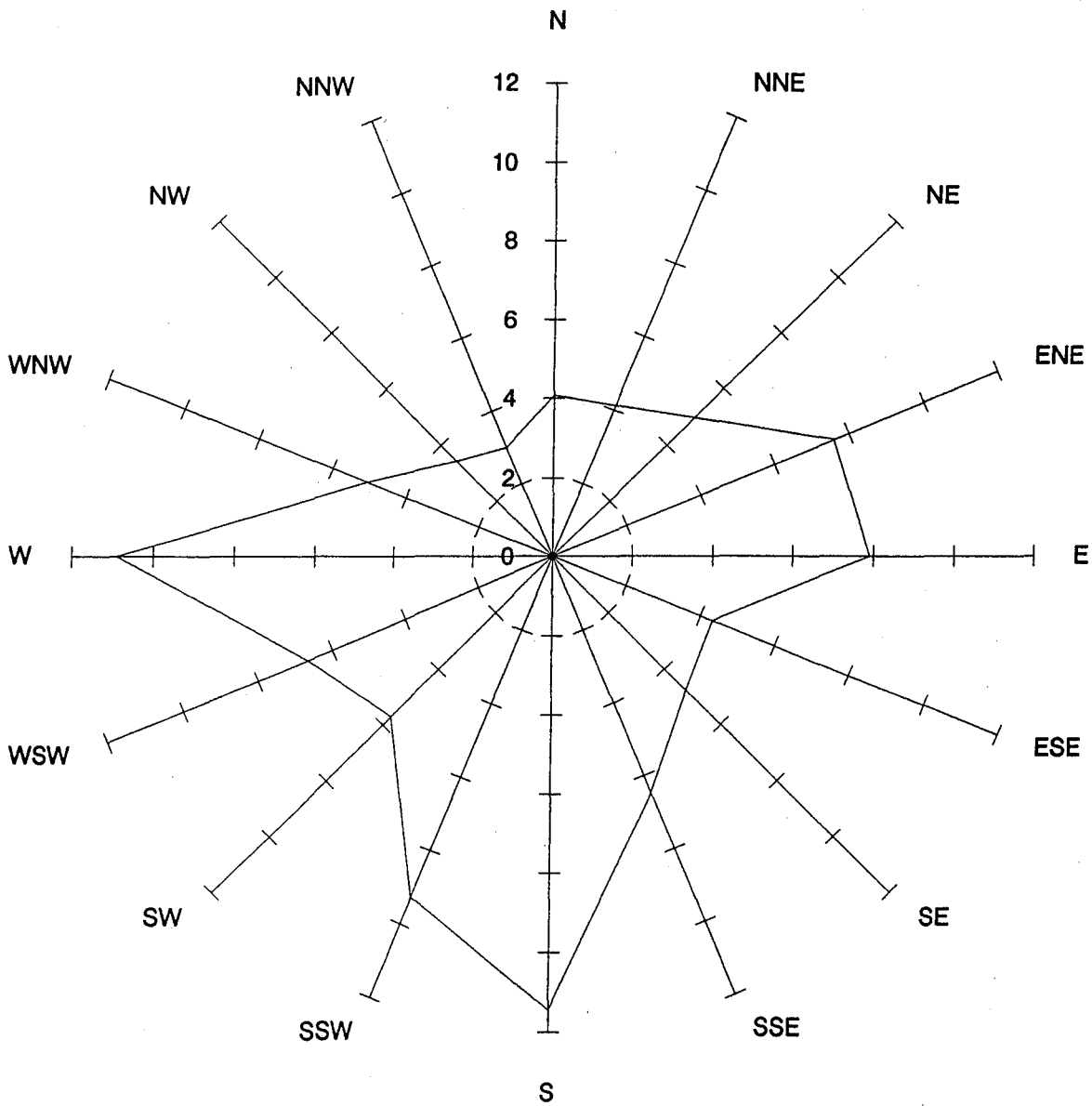
LV:nr
P-4:1/28

Enc.

FIGURE II-9

WINDROSE FOR WHITTIER FACILITY

WIND ROSE MAP OF WHITTIER



Annual Average Miles per Hour

Table VI-1. Wind Frequency Distribution (Percent)

| Direction | Speed in MPH | | | | | | | | TOTAL | MEAN |
|-----------|--------------|-------|-------|------|-------|-------|-------|------|--------|------|
| | 0-2 | 2-4 | 4-7 | 7-11 | 11-16 | 16-22 | 22-29 | 29+ | | |
| N | 2.22 | 2.27 | 0.42 | 2.09 | 2.07 | 0.01 | 0.00 | 0.00 | 4.08 | 2.96 |
| NNE | 2.33 | 1.37 | 0.38 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 4.12 | 2.63 |
| NE | 2.58 | 1.75 | 0.52 | 0.08 | 0.03 | 0.01 | 0.00 | 0.00 | 4.97 | 2.95 |
| ENE | 3.36 | 3.22 | 0.78 | 0.21 | 0.04 | 0.01 | 0.00 | 0.00 | 7.61 | 3.10 |
| E | 3.36 | 3.29 | 0.90 | 0.28 | 0.09 | 0.00 | 0.00 | 0.00 | 7.92 | 3.25 |
| ESE | 1.91 | 1.62 | 0.61 | 0.13 | 0.04 | 0.01 | 0.00 | 0.00 | 4.31 | 3.21 |
| SE | 2.32 | 1.79 | 0.54 | 0.09 | 0.03 | 0.00 | 0.00 | 0.00 | 4.77 | 2.97 |
| SSE | 2.72 | 2.27 | 1.24 | 0.23 | 0.03 | 0.00 | 0.00 | 0.00 | 6.48 | 3.36 |
| S | 3.25 | 3.68 | 3.65 | 0.81 | 0.06 | 0.01 | 0.00 | 0.00 | 11.45 | 4.16 |
| SSW | 1.69 | 2.42 | 3.95 | 1.14 | 0.08 | 0.00 | 0.00 | 0.00 | 9.28 | 4.97 |
| SW | 1.17 | 1.59 | 1.83 | 0.96 | 0.16 | 0.00 | 0.00 | 0.00 | 5.71 | 5.07 |
| WSW | 1.28 | 1.51 | 2.43 | 1.12 | 0.31 | 0.03 | 0.00 | 0.00 | 6.67 | 5.51 |
| W | 2.94 | 3.06 | 3.31 | 1.17 | 0.37 | 0.06 | 0.00 | 0.00 | 10.90 | 4.72 |
| WNW | 2.01 | 1.59 | 0.85 | 0.44 | 0.16 | 0.02 | 0.01 | 0.00 | 5.08 | 4.02 |
| NW | 1.23 | 0.98 | 0.55 | 0.43 | 0.23 | 0.03 | 0.00 | 0.00 | 3.45 | 4.72 |
| NNW | 1.31 | 0.99 | 0.43 | 0.16 | 0.10 | 0.02 | 0.00 | 0.00 | 3.02 | 3.75 |
| CALMS | | | | | | | | 0.17 | | |
| TOTALS | 35.67 | 32.40 | 22.38 | 7.35 | 1.80 | 0.21 | 0.02 | 0.01 | 100.00 | 3.96 |

Source: SCAQMD Station 114W, 14427 Leffingwell Road, Whittier, 1969-1975.

FIGURE II-10

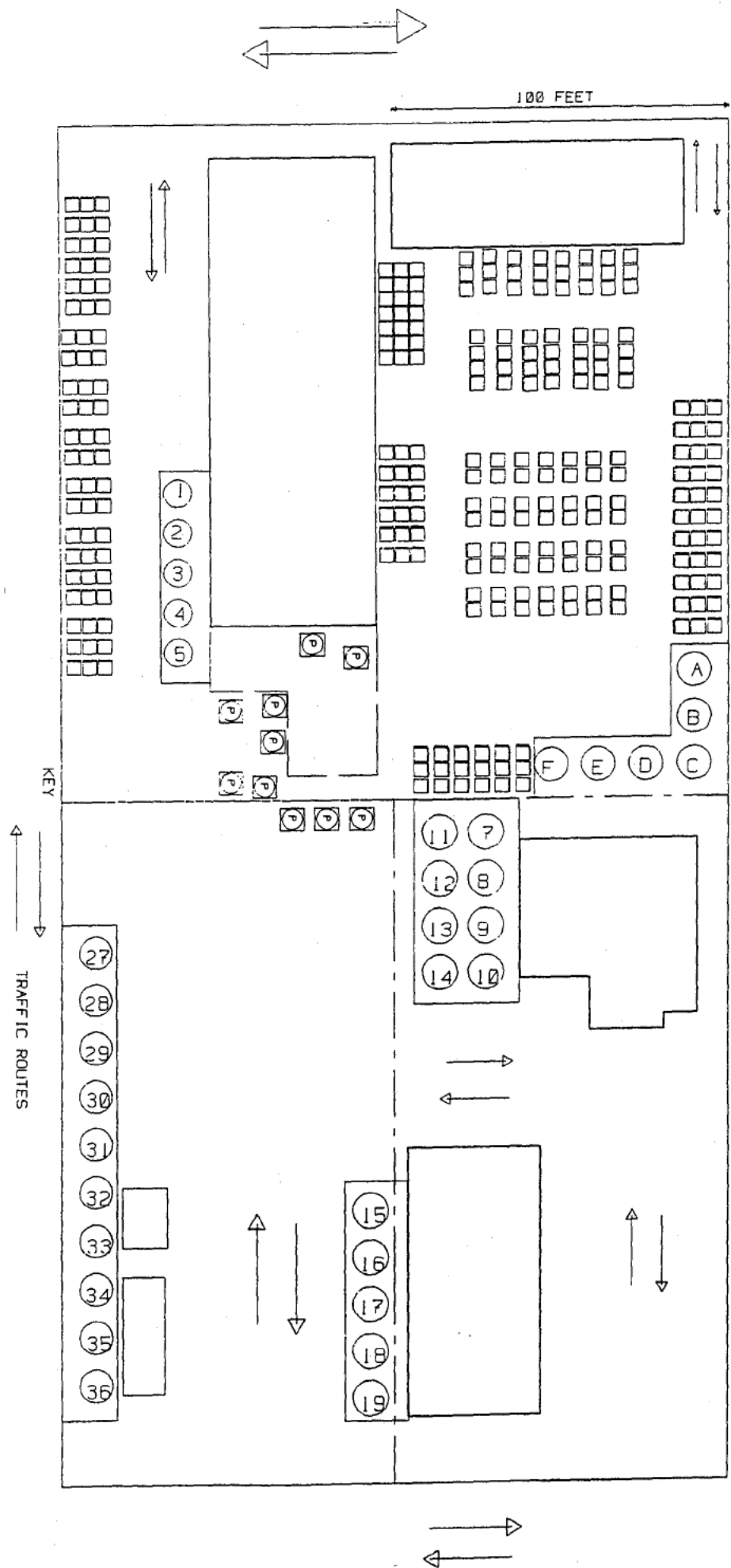
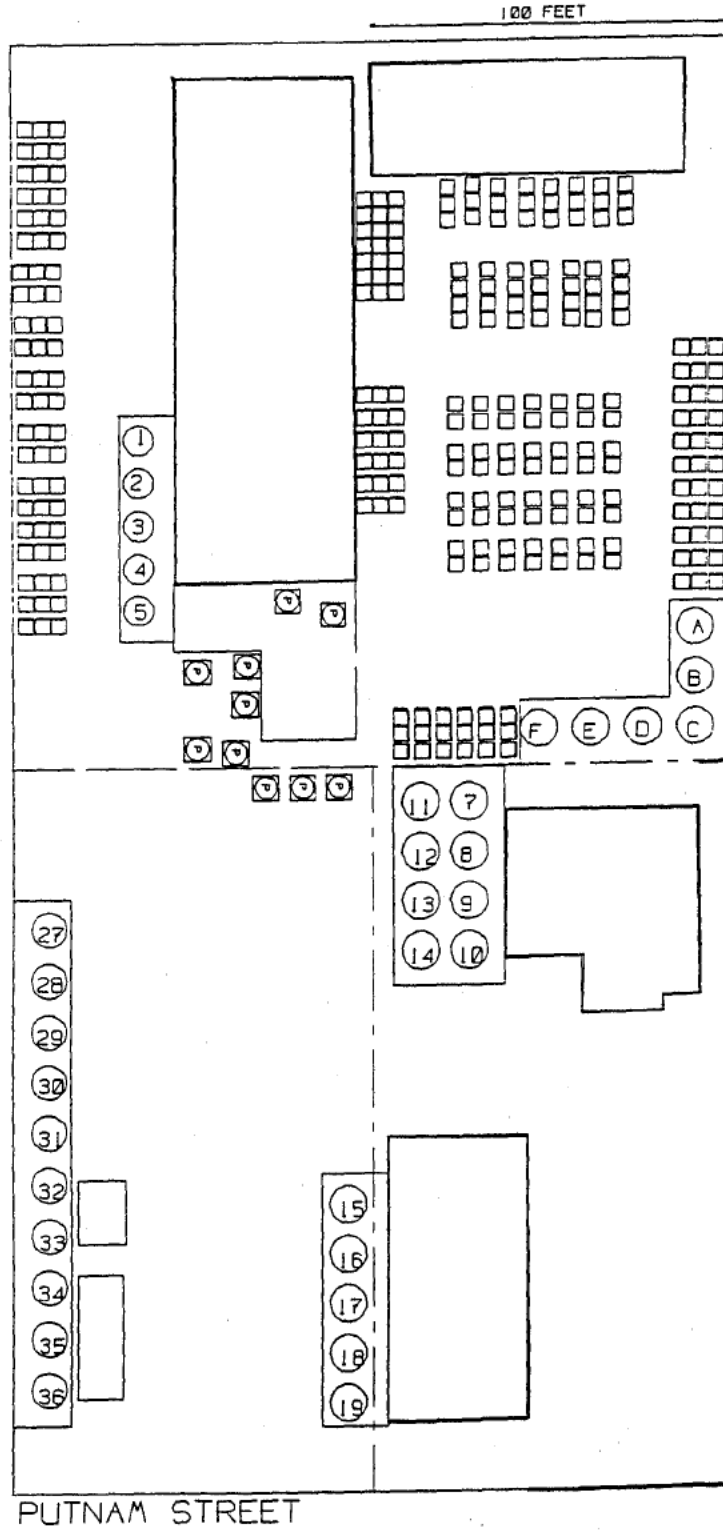


FIGURE II-11

FIGURE II-11 MAJOR STORAGE TANK LOCATIONS



OMEGA RECOVERY SERVICES

100 FEET

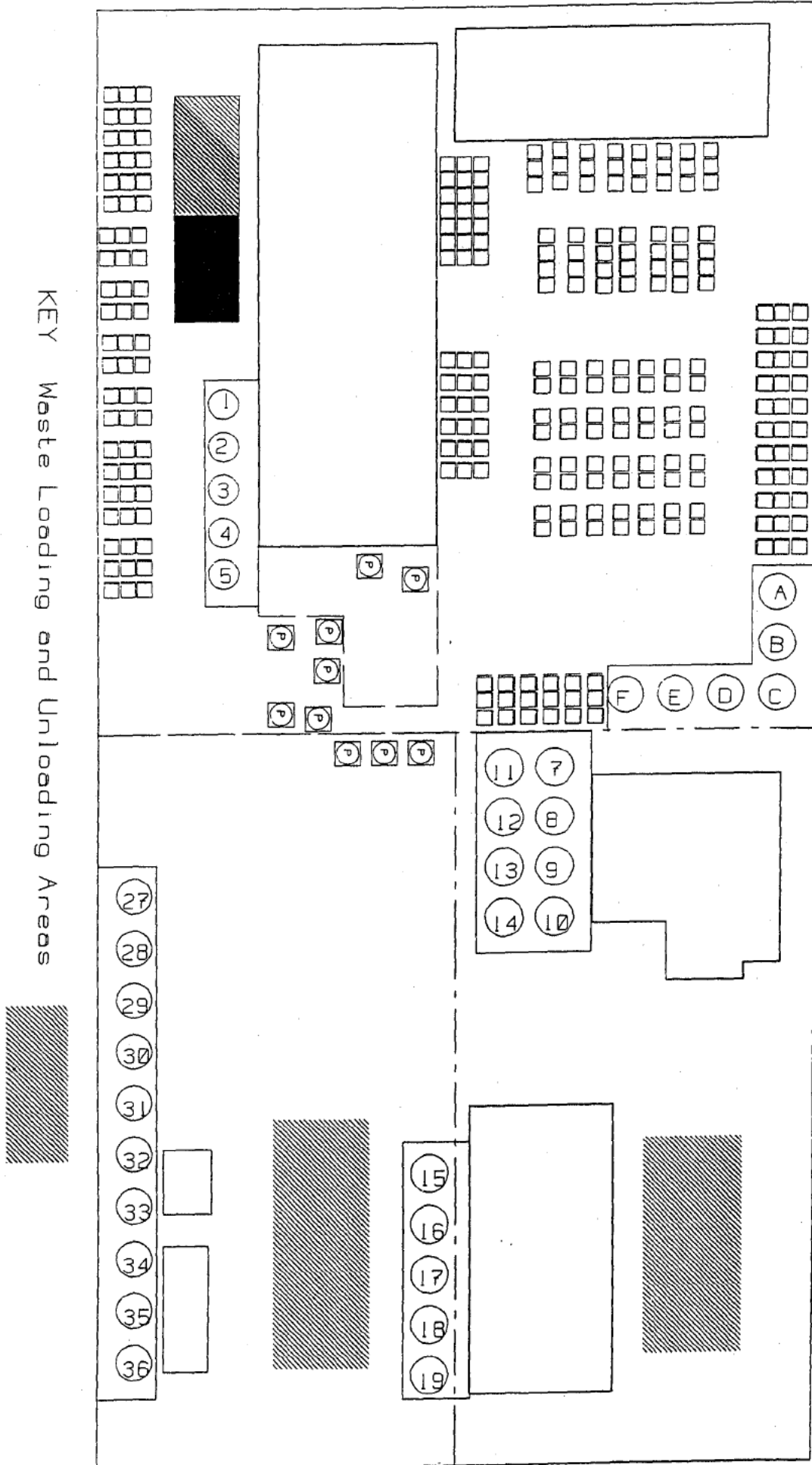


FIGURE II-13

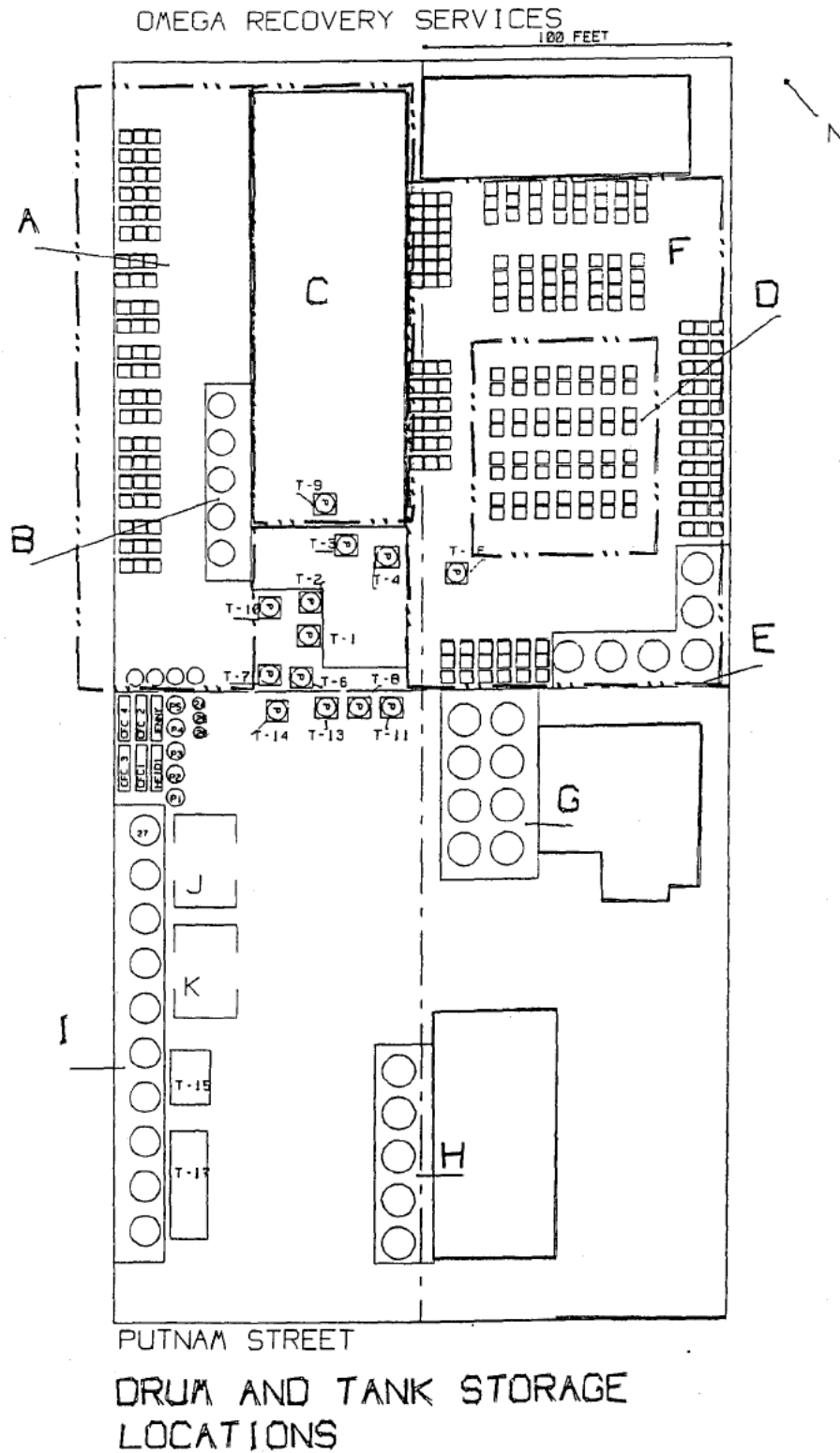


Figure II-14

RESERVED FOR FUTURE USE

FIGURE II-15

12504 E. WHITTIER BLVD. WHITTIER, CA

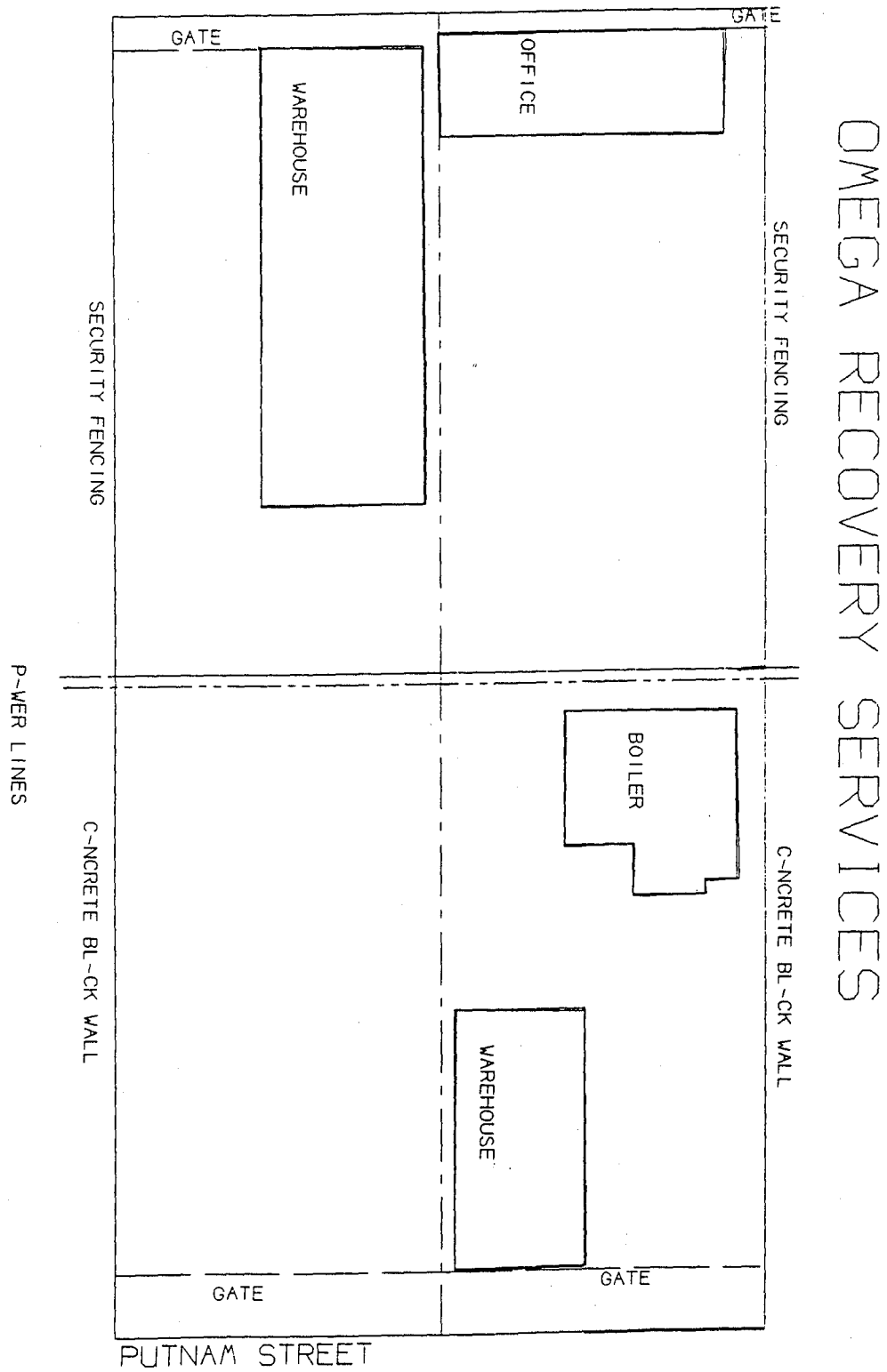
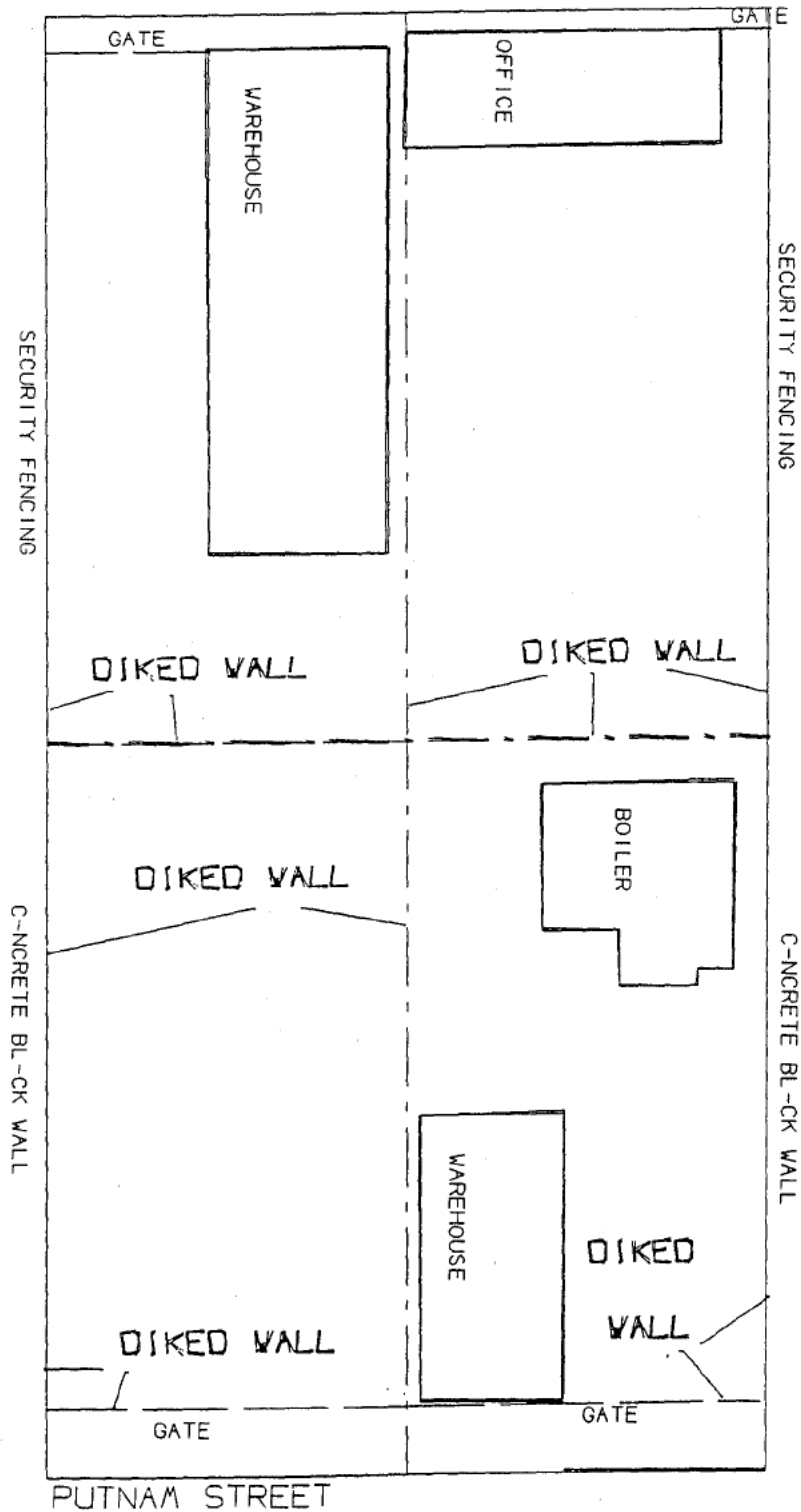


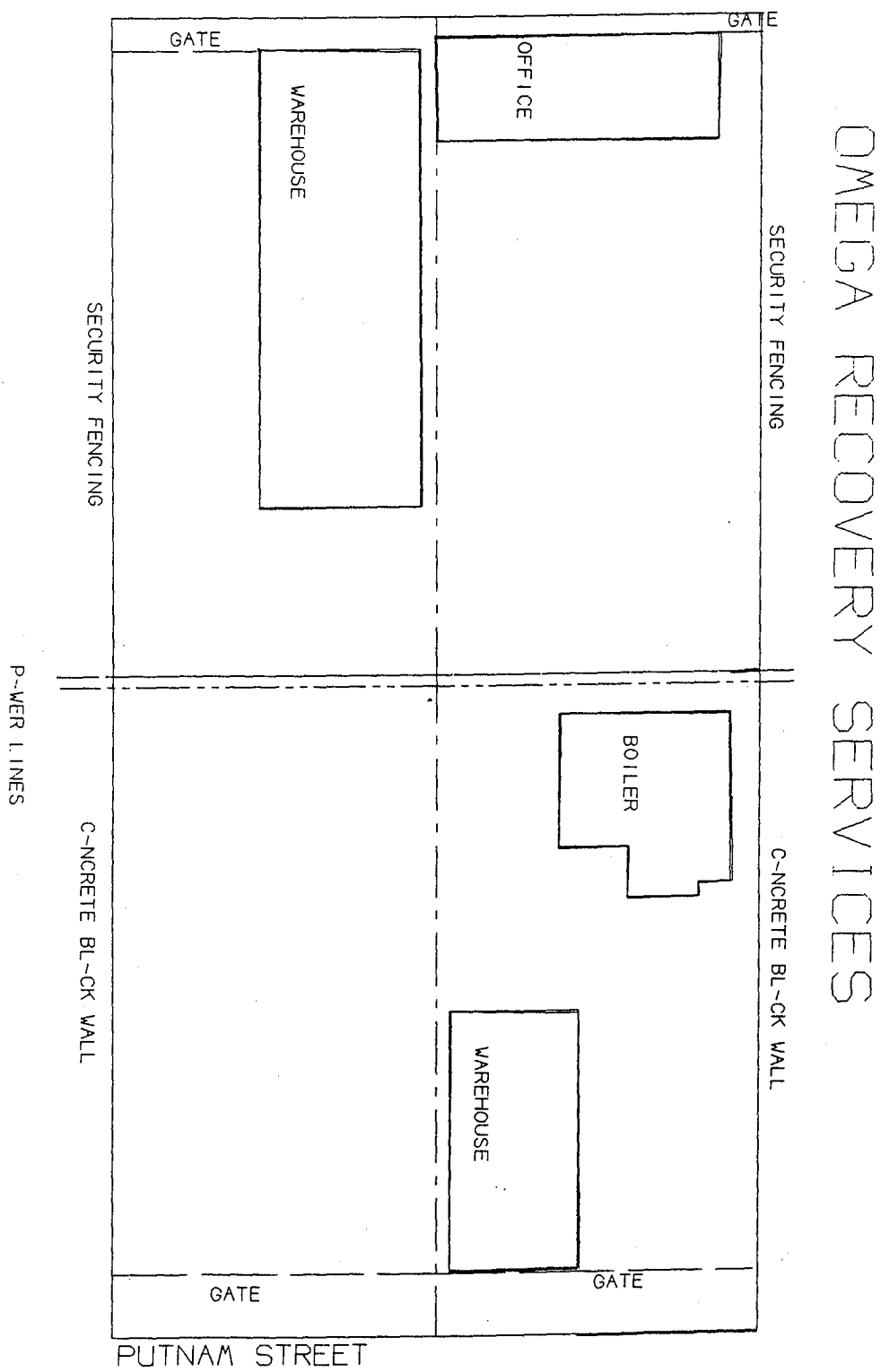
FIGURE II-16

OMEGA RECOVERY SERVICES



17

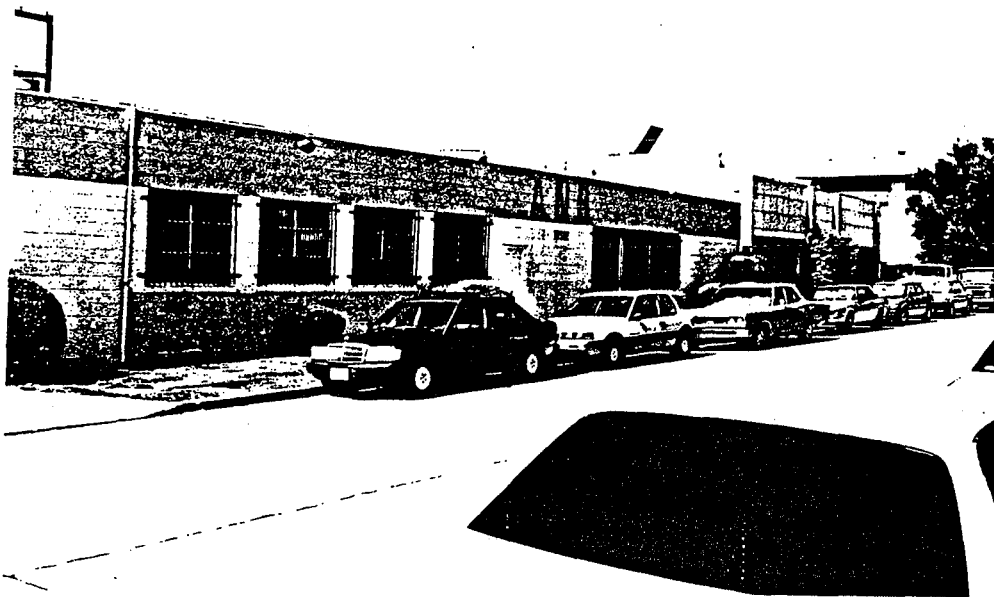
17



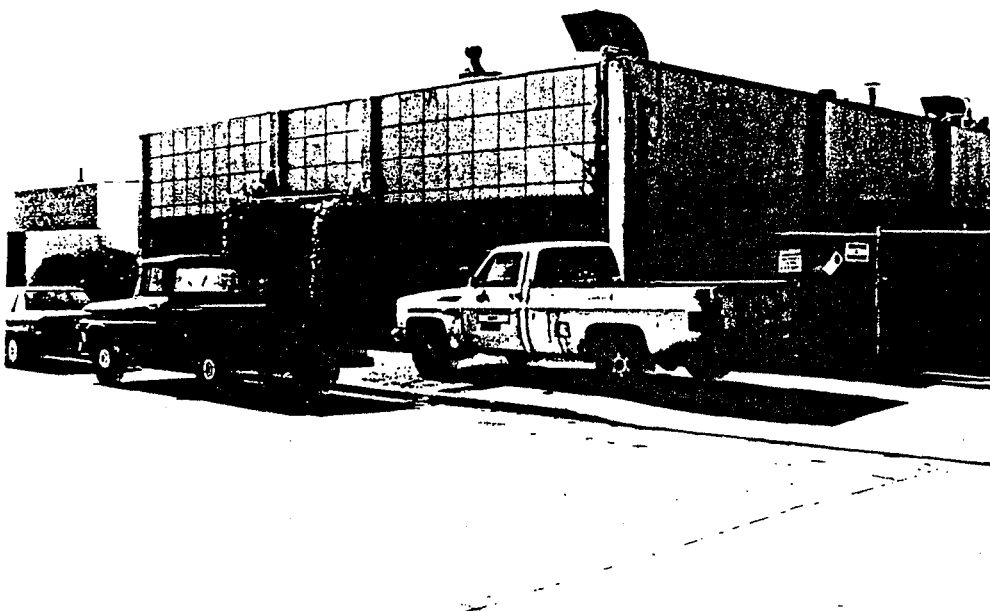
PROP-C-Controlled/Proprietary

FIGURE II-19

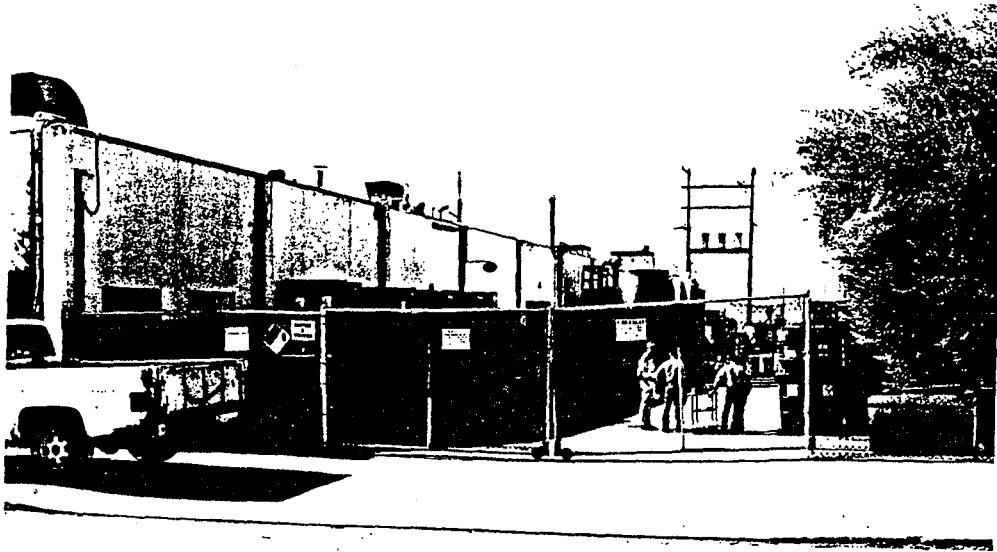
PHOTOGRAPH ESSAY OF CURRENT FACILITY



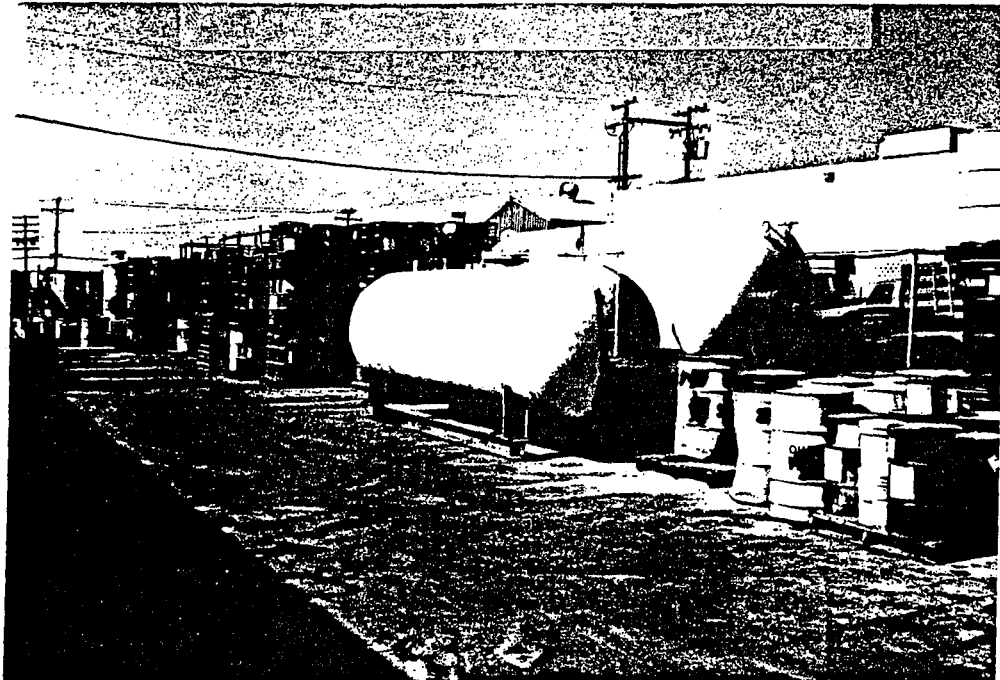
Title: Front View of Administration Bldg on Whittier Blvd



Title: Front View of Warehouse Bldg on Whittier Blvd.



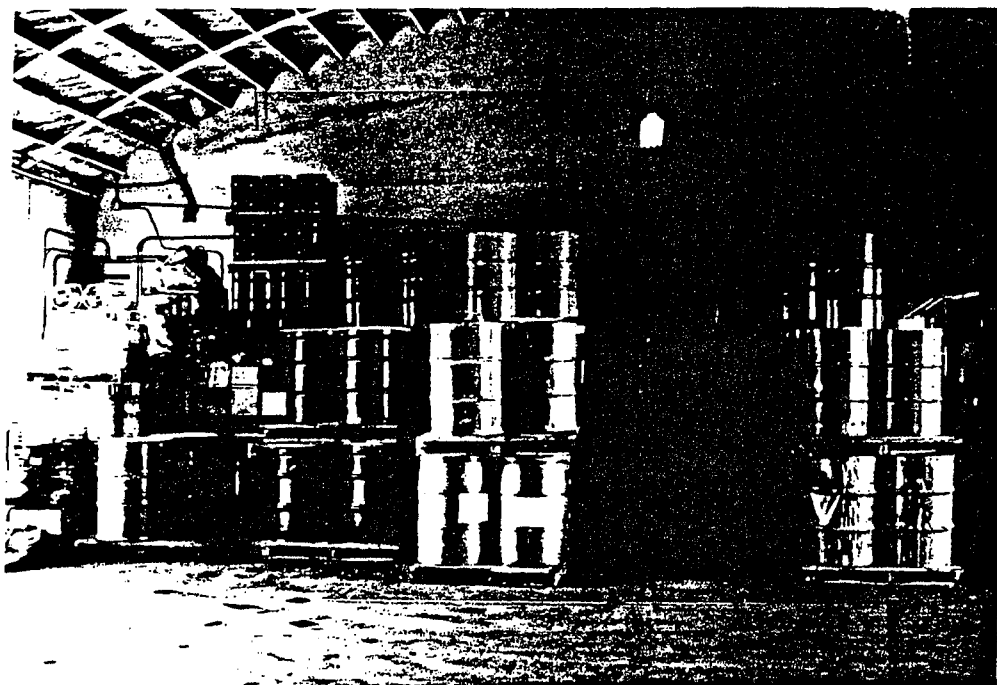
Title: Front View of Main Gate on Whittier Blvd



Title: View of Receiving Area on Whittier Blvd.



Title: Looking North Inside Warehouse on Whittier Blvd



Title: Looking South Inside Warehouse on Whittier Blvd.



Title: Looking North Drum Storage South Yard



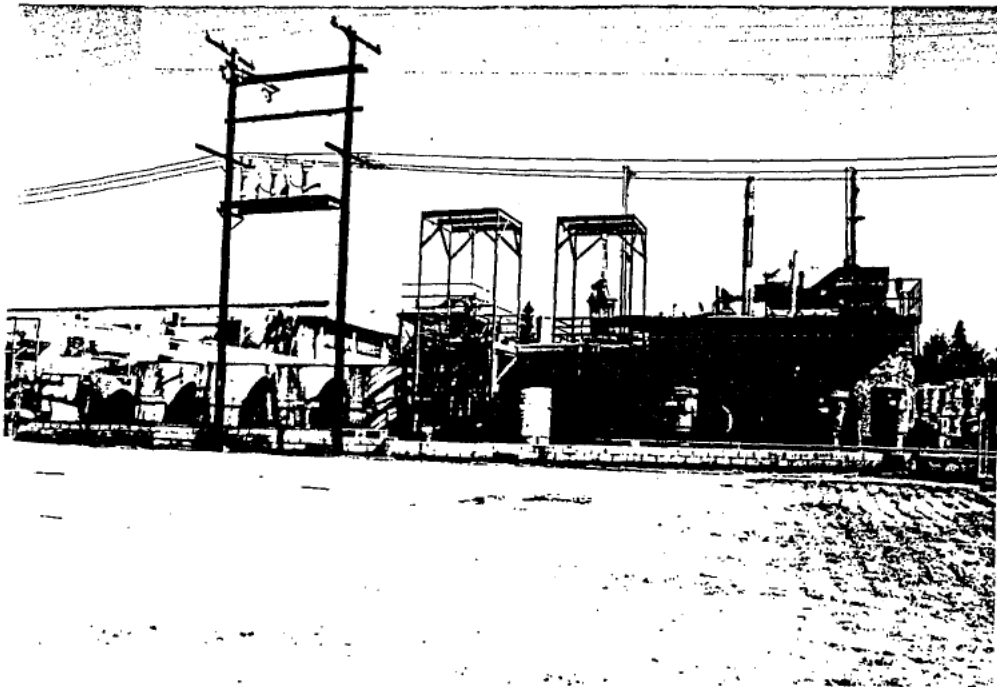
Title: Looking West in Drum Storage South Yard.



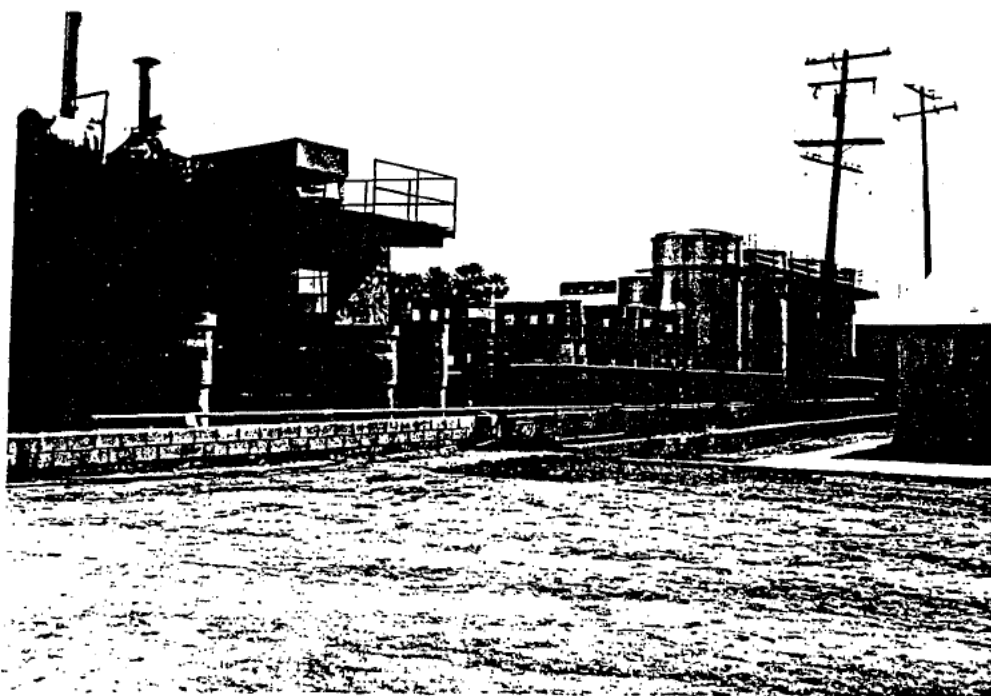
Title: 10,000 Gallon Tanks in South Yard



Title: Looking East in Drum Storage South Yard.



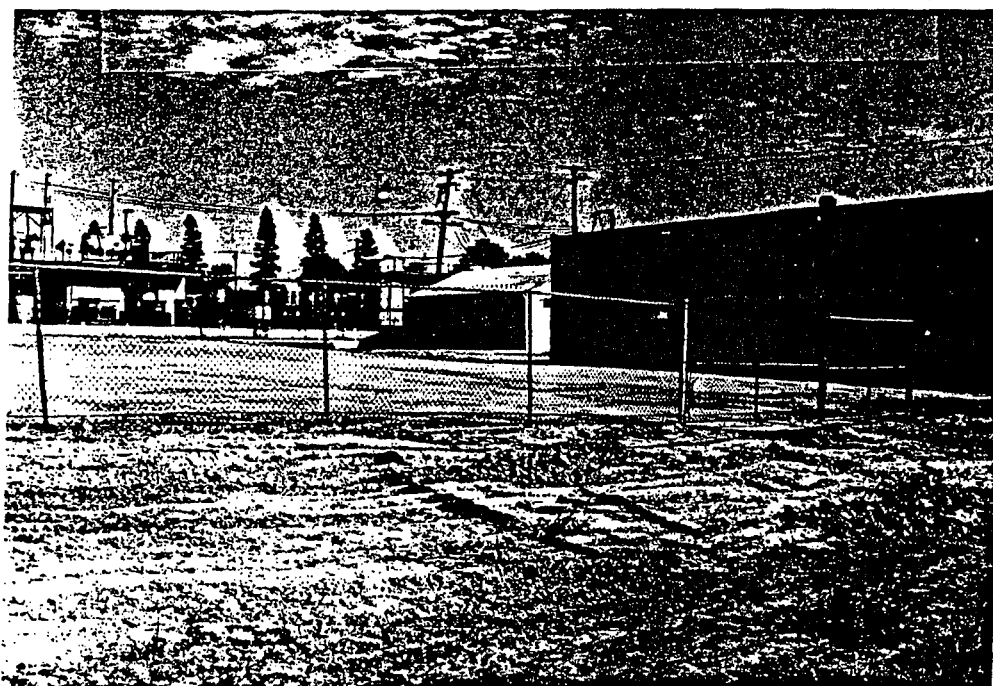
Title: Looking North from Proposed Treatment Facility



Title: Looking East from Proposed Treatment Facility Expansion.



Title: Looking North from Proposed Treatment Facility Expansion on Putnam St.



Title: Looking East from Proposed Treatment Facility Expansion on Putnam St..

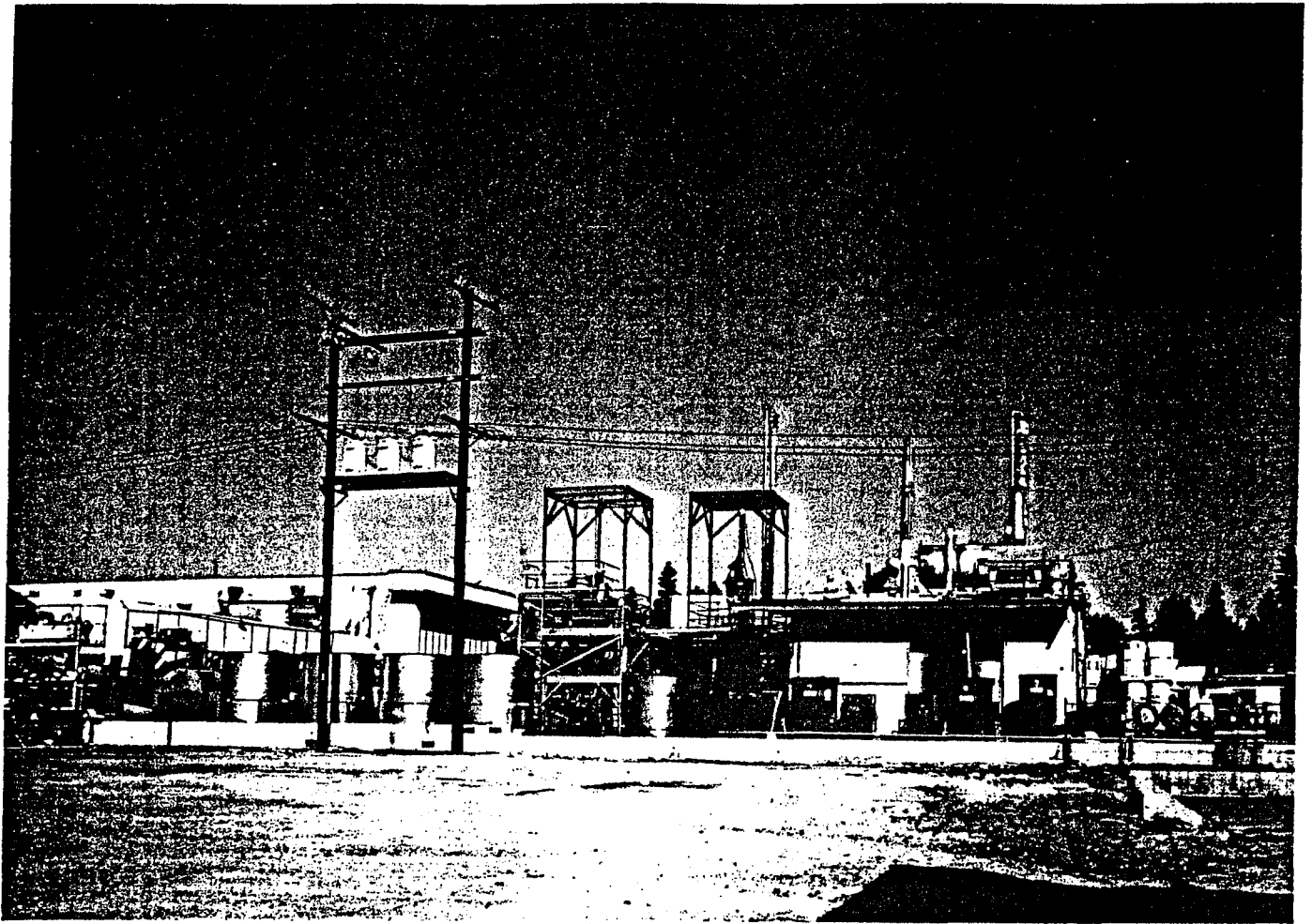


PHOTO: ENGINEERING-SCIENCE

CLOSE-UP OF PROCESS EQUIPMENT



PHOTO: ENGINEERING-SCIENCE

PROPOSED EXPANSION SITE

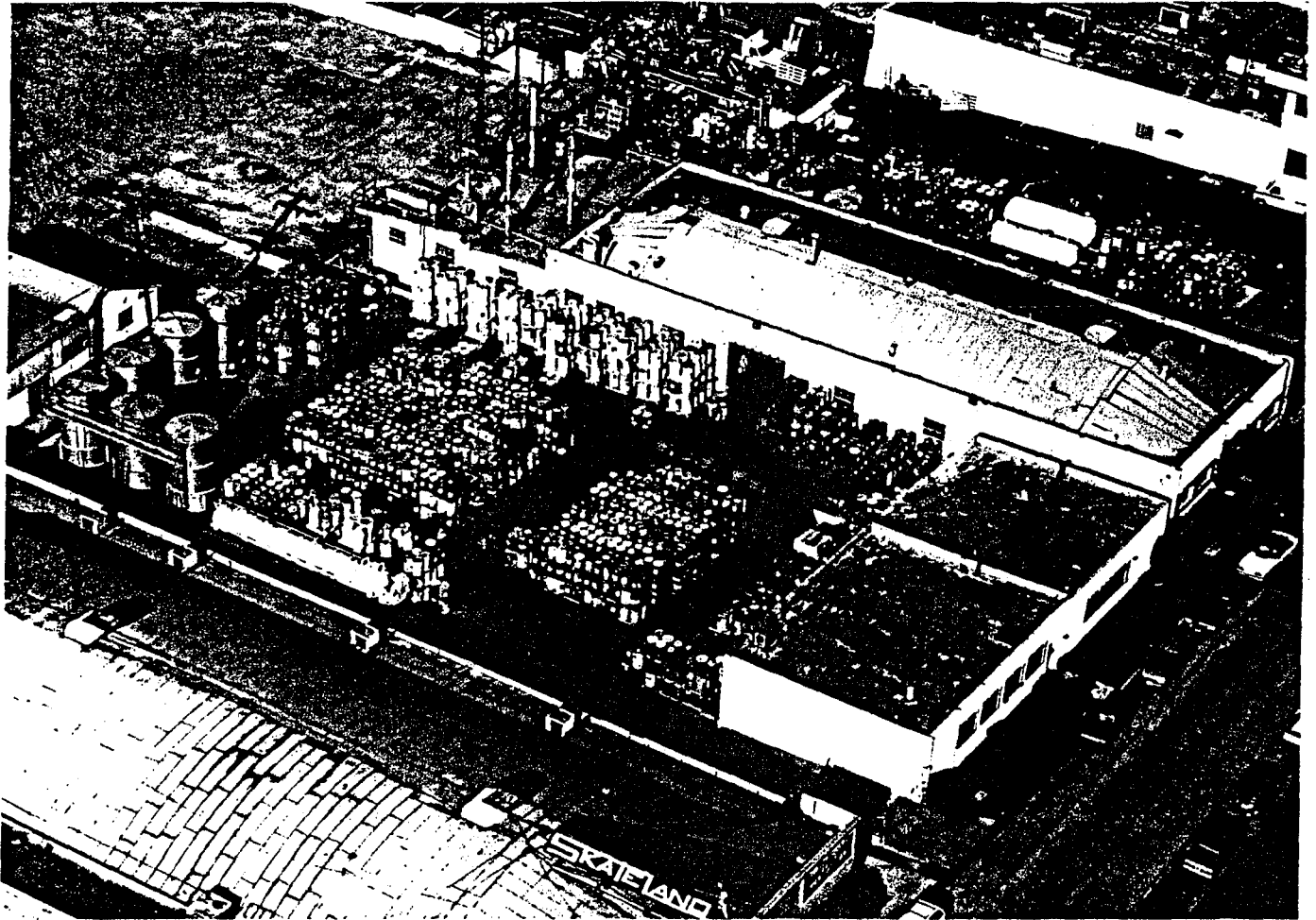


PHOTO: ENGINEERING-SCIENCE

EXISTING FACILITY



AERIAL PHOTO: ENGINEERING-SCIENCE

OMEGA RECOVERY SERVICES EXPANSION



III. GEOLOGY OF THE SITE

The climate of the Whittier Area which is part of the San Gabriel Valley is categorized as semi-arid with an average annual rainfall of between 13 to 20 inches. Precipitation occurs mainly during the winter and spring months. The National Oceanic and Atmospheric Association (NOAA) climatological station nearest to the facility is located in Whittier.. This station has compiled many decades of meteorological records. The average annual precipitation at the station is 15.43 inches, and ranges from a low of 4.86 inches to a high of 36.73 inches. A 24-hour/25-year storm event of 5.61 inches (0.47 feet) has been estimated from station records (see Figure III-1). The average monthly temperatures in the San Gabriel Valley range from 41°F to 89°F (see Figure III-1).

The combination of climate and alluvium supports only sparse yucca-sumac types of vegetation near the facility.

III.A. GEOLOGY

The Omega facility is located within the greater San Gabriel Valley, which is physiographically defined to the north by the San Gabriel Mountains, to the north by the Puente-Repetto Hills Complex.

The geology beneath the facility consists of thick series sandstone, siltstone, and conglomerate beds west of Hacienda Boulevard is named tentatively as middle Puente. It represents a facies change of the eastern section with coarsening to the west. The distinction in the lithology of the two eastern units disappears in the west as the amount of coarser material increases. A fault of unknown displacement as shown on the Figure III-2 accentuates the difference between the series east and the series west of Hacienda.

The top of the western section is the base of a medium grained brown sandstone approximately 50 feet thick marking a change in lithology to the thinly bedded upper Puente sandstone and siltstones of the overlying beds.

III.B HOLOCENE FAULTS AND SEISMICITY

There is the Whittier Fault which is located over 3000 feet from the Omega facility and the site is not located within an Alquist-Priolo Special Studies Zone (see Figure III-8). The dominant structural feature of the San Gabriel Valley area is the frontal fault zone termed the Sierra Madre Fault Zone, along which the San Gabriel mountains have been uplifted. Further study shows that there are no faults within 200 feet of the Omega facility.

The Puente Hills are essentially a west trending anticline that is complicated by secondary folding and faulting. The predominant structural feature of the Puente Hills is the Whittier fault or fault zone. This major structure trends southeast along the south flanks of the Puente Hills and extends from the vicinity of the Whittier Narrows into Orange County. Northeast of the City of Whittier, the principal fault separates into a complex of smaller breaks and probably diminishes as it approaches the Whittier Narrows. Available oil well data indicate that it is a high angle reverse fault, with the north side rising over the south side at an angle of approximately 70 degrees. Offset drainage of La Mirada Creek and Turnbull and Brea Canyons in Orange County suggest that right lateral displacement has occurred along the fault in relatively late geologic time, the southwest side having moved several thousand feet northwest relative to the north east side.

The Puente Hills have been uplifted by vertical displacement along the Whittier fault and by normal faulting along the Workman Hill, Handorf and Rowland fault systems. The hills are further characterized structurally by minor faults, unconformities, and tight and overturned folds in sediments of Miocene, Pliocene and Pleistocene age. South of the Whittier fault zone, an angular unconformity exists between Pico and overlying San Pedro sediments, but both formations have a general southerly homoclinal dip on the LaHabra syncline.¹

Source: Geology of Whittier-LaHabra Area, State of California Department of Natural Resources, Special Report 18, March 1952, Out of Print.

Figure III-3 shows that the closest fault to the site is the Whittier Fault which is over 2 miles from the facility.

Since all the processing and treatment is done in tanks aboveground. All the tanks have secondary containment. Therefore the potential for groundwater contamination is an extremely rare possibility. The groundwater is below 200 hundred feet. This further establishes the geology of the site to being safe and proper for operation of a resource recovery facility

IIIC: GROUNDWATER DEPTH

A information for the depth to Ground water was obtained from California Department of Water Resources, Los Angeles Division. A search of the records provided the following data. A well location map for the Whittier Quadrangle showed that there is only one active well that lists data that is within one mile radius of the site. (See Figure III-4). The data from the well data is shown in Table III-1. This well is not being used for water use.

The depth to ground water is shown in Figure III-5 which is taken from the "Ground Water Geology of the Coastal Plain of Los Angeles County Appendix A". This was published in June 1961 by Department of Water Resources as Bullentin #104. It is now out of print. It shows the various depths to different aquifers under the Omega site. The depth to the Jefferson Aquifer is approximately 300 feet. The depth to the Lynwood Aquifer is over 400 feet.

Figure III-6 Location of Aquifers

Figure III-7 Groundwater Contours

¹ Sources for the information were obtained from the following:

"Geology of the Whittier- La Habra Area, Los Angeles, County" by Charles Kundert, published by Division of Mines Department of Natural Resources of California, Special Report 18, March 1952. This document is out of print.

"Geology & Oil Resources of the Western Puente Hills Area", by R. F. Yerkes, published by the US Geological Division, Professional Paper 420C 1972. This document is out of print

"Geologic Map of California", published by the Resources Agency of California, 1977.

"Map Showing Late Quaternary Faults of LA Region" Published by US Geological Division, Map MF1964

TABLE III-1 WATER DATA FROM WELL NUMBER 2S/11W 29E5

| Specification | June 1987 | June 1984 |
|---------------------------------------|-----------|------------|
| Dissolved Hardness | 329 mg/l | 429 mg/l |
| Dissolved Calcium | 97.7 mg/l | 122 mg/l |
| Dissolved Magnesium | 19.7 mg/l | 29.7 mg/l |
| Dissolved Sodium | 74.8 mg/l | 57.0 mg/l |
| Dissolved Potassium | 4.4 mg/l | 3.9 mg/l |
| Total Alkalinity as Calcium Carbonate | 179 mg/l | 172 mg/l |
| pH | 7.7 | 7.8 |
| Sulfate | 164 mg/l | 217 mg/l |
| Chlorine | 75.0 mg/l | 91.0 mg/l |
| Nitrate | N/A | 19.9 mg/l |
| Fluorine | 0.3 mg/l | 0.3 mg/l |
| Boron | 0.23 mg/l | .18 mg/l |
| Dissolved Solids | 570 mg/l | 690 mg/l |
| Conductance | 950 mohms | 1050 mohms |
| Dissolved Silica | 1101 mg/l | 1101 mg/l |

Figure III-1
Climatological Data

The closest station of National Oceanic And Atmospheric Association station is the County of Los Angeles Fire Station located in City of Whittier.

The data is obtained from the National Climatological Data Center in Ashville, North Carolina.

The average annual precipitation at the station is 15.43 inches.

The lowest precipitation of the last 25 years is 4.86 inches

The highest precipitation of the last 25 years is 36.73 inches.

Mean Precipitation

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|------|------|-------|
| mean | 3.34 | 2.88 | 2.51 | 1.27 | .23 | .04 | .01 | .1 | .24 | .30 | 1.96 | 2.55 | 15.43 |

The maximum precipitation for a 24 hour duration is 5.61 inches.

The average monthly temperatures for San Gabriel Valley range from 41° F to 89 °F.

Temperature Normals (Deg. °F)

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Ann |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Max | 68.3 | 70.4 | 71.2 | 74.1 | 77.0 | 82.1 | 89.1 | 89.3 | 87.9 | 82.0 | 74.9 | 69.9 | 78.0 |
| Min | 41.3 | 42.9 | 44.9 | 47.8 | 52.2 | 56.3 | 60.4 | 61.1 | 58.6 | 53.0 | 45.9 | 41.3 | 50.5 |
| Mean | 54.8 | 56.7 | 58.1 | 61.0 | 64.6 | 69.2 | 74.8 | 75.2 | 73.3 | 67.5 | 60.4 | 55.6 | 64.3 |

The air quality is shown in Figure III-1A from the South Coast Air Quality Management District.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

| Source/ Receptor Area No. | Location of Air Monitoring Station | Carbon Monoxide | | | | | | Ozone | | | Nitrogen Dioxide | | | | Sulfur Dioxide | | | | | Visibility | | | | | | | | |
|---------------------------|------------------------------------|--------------------------|--------------------------|----------------------------|------|-------|------|--------------------------|----------------------------|-------|--------------------------|--|--------------|---------------------------------------|--------------------------|---------------------------|--|------|------------------------------------|-----------------------------|----------|---|---------|------|-------|-------|-------|-------|
| | | Max. Conc. in PPM 1-Hour | Max. Conc. in PPM 8-Hour | No. Days Standard Exceeded | | | | Max. Conc. in PPM 1-Hour | No. Days Standard Exceeded | | Max. Conc. in PPM 1-Hour | Average Compared to Federal Standard ^{a)} | | No. Days Std. Exc'd. > .25 PPM 1-Hour | Max. Conc. in PPM 1-Hour | Max. Conc. in PPM 24-hour | Average Compared to Federal Standard ^{b)} | | No. Days Std. Exc'd. ^{c)} | | Location | Days not Meeting State Std. ^{e)} | | | | | | |
| | | | | Federal State | | | | | Federal | State | | AAM | X Above Std. | | | | Federal | Std. | Federal | Std. | | | Federal | Std. | | | | |
| | | | | ≥ 9.5 | > 35 | ≥ 9.1 | > 20 | | | | | | | | | | | | | | | | | | > .12 | > .09 | > .14 | ≥ .05 |
| | | | | PPM | PPM | PPM | PPM | | | | | | | | | | | | | | | | | | PPM | PPM | PPM | PPM |
| 1 | Los Angeles | 14* | 9.8* | 2* | 0* | 2* | 0* | .25 | 34 | 76 | .28 | .0553 | 3.3 | 1 | .03 | .014 | .0022 | 0 | 0 | Burbank Airport | 214 | | | | | | | |
| 2 | W. Los Angeles | 12 | 8.0 | 0 | 0 | 0 | 0 | .25 | 15 | 65 | .22 | .0315 | 0 | 0 | .02 | .012 | .0024 | 0 | 0 | Los Angeles International | 150 | | | | | | | |
| 3 | Hawthorne | 23 | 16.4 | 25 | 0 | 28 | 2 | .19 | 3 | 11 | .24 | .0374 | 0 | 0 | .09 | .019 | .0047 | 0 | 0 | | | | | | | | | |
| 4 | Long Beach | 13 | 10.1 | 2 | 0 | 2 | 0 | .16 | 3 | 10 | .27 | .0428 | 0 | 1 | .11 | .022 | .0046 | 0 | 0 | | | | | | | | | |
| 5 | Whittier | 13 | 8.8 | 0 | 0 | 0 | 0 | .26 | 37 | 70 | .29 | .0444 | 0 | 1 | .04 | .016 | .0036 | 0 | 0 | Long Beach Airport | 210 | | | | | | | |
| 6 | Reseda | 17 | 12.5 | 11 | 0 | 15 | 0 | .23 | 54 | 120 | .18 | .0390 | 0 | 0 | .02 | .011 | .0018 | 0 | 0 | | | | | | | | | |
| 7 | Burbank | 20 | 13.9 | 18 | 0 | 21 | 0 | .20 | 40 | 97 | .25 | .0507 | 0 | 0 | .03 | .012 | .0020 | 0 | 0 | | | | | | | | | |
| 8 | Pasadena | 14 | 8.4 | 0 | 0 | 0 | 0 | .27 | 80 | 140 | .34 | .0531 | 0 | 2 | .02 | .010 | .0022 | 0 | 0 | William J. Fox Airport | 2 | | | | | | | |
| 9 | Azusa | 7 | 5.8 | 0 | 0 | 0 | 0 | .33 | 112 | 164 | .27 | .0511 | 0 | 2 | .02 | .010 | .0017 | 0 | 0 | | | | | | | | | |
| 9 | Glendora | NM | NM | NM | NM | NM | NM | .34 | 121 | 171 | .22 | .0389 | 0 | 0 | NM | NM | NM | NM | NM | | | | | | | | | |
| 10 | Pomona | 12 | 7.4 | 0 | 0 | 0 | 0 | .25 | 61 | 117 | .26 | .0571 | 6.7 | 1 | NM | NM | NM | NM | NM | Figure III-1A | | | | | | | | |
| 11 | Pico Rivera | 13 | 10.7 | 1 | 0 | 2 | 0 | .26 | 61 | 108 | .31 | .0547 | 2.2 | 2 | .04 | .022 | .0045 | 0 | 0 | | | | | | | | | |
| 12 | Lynwood | 31 | 21.8 | 55 | 0 | 61 | 16 | .14 | 7 | 30 | .34 | .0459 | 0 | 2 | .04 | .016 | .0042 | 0 | 0 | | | | | | | | | |
| 13 | Santa Clarita | 12* | 5.4* | 0* | 0* | 0* | 0* | .25 | 71 | 122 | .13* | .0368* | 0* | 0* | .02* | .007* | .0009* | 0* | 0* | | | | | | | | | |
| 14 | Lancaster | 13 | 7.1 | 0 | 0 | 0 | 0 | .21 | 27 | 95 | .08 | .0186 | 0 | 0 | NM | NM | NM | NM | NM | | | | | | | | | |
| 16 | La Habra | 24 | 10.7 | 6 | 0 | 7 | 7 | .26 | 36 | 76 | .23 | .0428 | 0 | 0 | .03 | .011 | .0021 | 0 | 0 | March Field (Riverside) | 205 | | | | | | | |
| 17 | Anaheim | 19 | 12.1 | 5 | 0 | 5 | 0 | .24 | 13 | 42 | .28 | .0472 | 0 | 1 | .03 | .014 | .0031 | 0 | 0 | | | | | | | | | |
| 17 | Los Alamitos | NM | NM | NM | NM | NM | NM | .16 | 11 | 35 | NM | NM | NM | NM | .07 | .014 | .0027 | 0 | 0 | | | | | | | | | |
| 18 | Costa Mesa ^{f)} | 16* | 12.7* | 5* | 0* | 8* | 0* | .11* | 0* | 2* | .22* | .0463* | 0* | 0* | .03* | .006* | .0015* | 0* | 0* | | | | | | | | | |
| 19 | El Toro | 9 | 5.1 | 0 | 0 | 0 | 0 | .23 | 7 | 30 | NM | NM | NM | NM | NM | NM | NM | NM | NM | | | | | | | | | |
| 22 | Morco | NM | NM | NM | NM | NM | NM | .23 | 56 | 114 | NM | NM | NM | NM | NM | NM | NM | NM | NM | Norton AFB (San Bernardino) | 203 | | | | | | | |
| 23 | Rubidoux | 12 | 10.3 | 1 | 0 | 1 | 0 | .27 | 113 | 172 | .16 | .0364 | 0 | 0 | .02 | .008 | .0007 | 0 | 0 | | | | | | | | | |
| 23 | Riverside | 14 | 8.5 | 0 | 0 | 0 | 0 | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | | | | | | | | | |
| 24 | Perris | NM | NM | NM | NM | NM | NM | .21 | 78 | 147 | .14 | .0322 | 0 | 0 | NM | NM | NM | NM | NM | | | | | | | | | |
| 25 | Lake Elsinore | NM | NM | NM | NM | NM | NM | .24 | 62 | 121 | NM | NM | NM | NM | NM | NM | NM | NM | NM | | | | | | | | | |
| 28 | Hemet | NM | NM | NM | NM | NM | NM | .19 | 21 | 77 | NM | NM | NM | NM | NM | NM | NM | NM | NM | Ontario Airport | 265 | | | | | | | |
| 29 | Banning | NM | NM | NM | NM | NM | NM | .23 | 60 | 112 | NM | NM | NM | NM | NM | NM | NM | NM | NM | | | | | | | | | |
| 30 | Palm Springs | 6 | 2.9 | 0 | 0 | 0 | 0 | .19 | 37 | 108 | .09 | .0239 | 0 | 0 | NM | NM | NM | NM | NM | | | | | | | | | |
| 30 | Indio | NM | NM | NM | NM | NM | NM | .16 | 16 | 76 | NM | NM | NM | NM | NM | NM | NM | NM | NM | | | | | | | | | |
| 32 | Upland | 8 | 5.4 | 0 | 0 | 0 | 0 | .32 | 97 | 146 | .20 | .0448 | 0 | 0 | .03 | .008 | .0014 | 0 | 0 | | | | | | | | | |
| 33 | Ontario | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | Ontario Airport | 265 | | | | | | | |
| 34 | Fontana | 7 | 5.8 | 0 | 0 | 0 | 0 | .32 | 113 | 155 | .18 | .0363 | 0 | 0 | .03 | .006 | .0005 | 0 | 0 | | | | | | | | | |
| 34 | San Bernardino | 11 | 8.1 | 0 | 0 | 0 | 0 | .30 | 115 | 159 | .18 | .0409 | 0 | 0 | .03 | .006 | .0006 | 0 | 0 | | | | | | | | | |
| 35 | Redlands | NM | NM | NM | NM | NM | NM | .27 | 116 | 164 | NM | NM | NM | NM | NM | NM | NM | NM | NM | Ontario Airport | 265 | | | | | | | |
| 37 | Crestline | NM | NM | NM | NM | NM | NM | .27 | 127 | 172 | NM | NM | NM | NM | NM | NM | NM | NM | NM | | | | | | | | | |

Figure III-1A

NM - Parts by volume per million parts of air.

AM - Annual Arithmetic Mean.

IM - Pollutant not monitored.

* - Less than 12 full months of data. May not be representative.

a) - The federal standard is annual arithmetic mean NO₂ greater than 0.0534 ppm.

b) - The federal standard is annual arithmetic mean SO₂ greater than 80 ug/m³ (.03 ppm). No location exceeded the standard in 1989.

c) - The other federal (3-hour average > 0.50 PPM; 0.03 PPM, AAM) and state (1-hour > 0.25 PPM) standards were also not exceeded.

d) - Twenty-four hour average SO₂ ≥ 0.05 PPM with 1-hour Ozone ≥ 0.10 PPM, or with 24-hour TSP ≥ 100 ug/m³.

e) - Visibility standard is less than 10 miles for hours with relative humidity less than 70%. Data received from FAA.

f) - Station closed March 12. New station opened November 1.



**SOUTH COAST
AIR QUALITY MANAGEMENT DISTRICT**
9150 Flair Drive
El Monte, CA 91731

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

| Source/ Receptor Area No. | Location of Air Monitoring Station | Suspended Particulates PM ₁₀ ^{g)} | | | | | | Particulates TSP ^{h)} | | | Lead ^{h)} | | | | Sulfate ^{h)} | |
|------------------------------------|--|---|--|--|---|-----------------------------------|-----------------------------------|--------------------------------|--|-----------------------------------|--|--|---|---|--|---|
| | | No. (%) Samples Exceeding Standard | | | | Annual Averages ⁱ⁾ | | Number of Samples | Max. Conc. in ug/m ³ 24-Hour | AGM Conc. ug/m ³ | Max. Conc. Qtrly. ug/m ³ | Max. Conc. Qtrly. ug/m ³ | Quarters/Months Exceeding Standard | | Max. Conc. in ug/m ³ 24-Hour | State Standard ≥25 ug/m ³ 24-Hour |
| | | Number of Samples | Max. Conc. in ug/m ³ 24-hour | Federal >150 ug/m ³ 24-Hour | State >50 ug/m ³ 24-Hour | AAM Conc. ug/m ³ | AGM Conc. ug/m ³ | | | | | | Federal >1.5 ug/m ³ Qtrly Avg. | State ≥1.5 ug/m ³ Mo. Avg. | | |
| 1 | Los Angeles | 58 | 137 | 0 | 33 (56.9) | 61.1 | 56.0 | 61 | 217 | 107.4 | 0.17 | 0.12 | 0 | 0 | 23.0 | 0 |
| 2 | W. Los Angeles | NM | NM | NM | NM | NM | NM | 54 | 126 | 61.5 | NM | NM | NM | NM | 19.6 | 0 |
| 3 | Mawthorne | 55 | 133 | 0 | 24 (43.6) | 49.7 | 44.9 | 60 | 370 | 80.3 | 0.13 | 0.07 | 0 | 0 | 22.6 | 0 |
| 4 | Long Beach | 59 | 119 | 0 | 26 (44.1) | 50.5 | 46.5 | 61 | 195 | 82.3 | 0.11 | 0.08 | 0 | 0 | 20.0 | 0 |
| 5 | Whittier | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 6 | Reseda | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 7 | Burbank | 58 | 133 | 0 | 40 (68.9) | 64.7 | 59.6 | 56 | 183 | 92.1 | 0.20 | 0.10 | 0 | 0 | 22.1 | 0 |
| 8 | Pasadena | NM | NM | NM | NM | NM | NM | 57 | 190 | 80.8 | NM | NM | NM | NM | 18.0 | 0 |
| 9 | Azusa | 59 | 172 | 1 (1.7) | 35 (59.3) | 60.7 | 54.1 | 57 | 341 | 110.9 | NM | NM | NM | NM | 16.9 | 0 |
| 9 | Glendora | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 10 | Pomona | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 11 | Pico Rivera | NM | NM | NM | NM | NM | NM | 57 | 206 | 95.4 | 0.19 | 0.12 | 0 | 0 | 32.0 | 1 |
| 12 | Lynwood | NM | NM | NM | NM | NM | NM | 56 | 239 | 105.9 | 0.15 | 0.11 | 0 | 0 | 19.6 | 0 |
| 13 | Santa Clarita | 48 | 100 | 0 | 23 (47.9) | 53.5 | 48.8 | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 14 | Lancaster | 56 | 110 | 0 | 25 (44.6) | 47.0 | 43.0 | 60 | 154 | 72.6 | NM | NM | NM | NM | 17.0 | 0 |
| 16 | La Habra | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 17 | Anaheim | NM | NM | NM | NM | NM | NM | 61 | 264 | 87.4 | 0.15 | 0.08 | 0 | 0 | 17.7 | 0 |
| 17 | Los Alamitos | 55 | 138 | 0 | 21 (38.2) | 46.2 | 42.0 | 61 | 251 | 90.1 | NM | NM | NM | NM | 17.4 | 0 |
| 18 | Costa Mesa | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 19 | El Toro | 60 | 88 | 0 | 20 (33.3) | 41.7 | 38.1 | 61 | 208 | 89.1 | NM | NM | NM | NM | 16.5 | 0 |
| 22 | Morco | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 23 | Rubidoux | 61 | 252 | 7 (11.5) | 51 (83.6) | 94.3 | 81.3 | 61 | 347 | 132.2 | 0.07 | 0.05 | 0 | 0 | 16.9 | 0 |
| 23 | Riverside | NM | NM | NM | NM | NM | NM | 59 | 277 | 114.7 | 0.07 | 0.06 | 0 | 0 | 16.6 | 0 |
| 24 | Perris | 59 | 187 | 1 (1.7) | 39 (66.1) | 61.4 | 52.2 | 58 | 303 | 98.4 | NM | NM | NM | NM | 15.9 | 0 |
| 25 | Lake Elsinore | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 28 | Hemet | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 29 | Banning | 60 | 194 | 2 (3.3) | 20 (33.3) | 47.2 | 37.1 | 60 | 464 | 75.1 | NM | NM | NM | NM | 13.8 | 0 |
| 30 | Palm Springs | 60 | 292 | 2 (3.3) | 17 (28.3) | 44.6 | 35.8 | 61 | 768 | 69.6 | NM | NM | NM | NM | 12.1 | 0 |
| 30 | Indio | 58 | 712 | 4 (6.9) | 39 (67.2) | 90.3 | 66.4 | 60 | 1465 | 136.5 | NM | NM | NM | NM | 18.3 | 0 |
| 32 | Upland | NM | NM | NM | NM | NM | NM | 58 | 292 | 98.7 | 0.11 | 0.08 | 0 | 0 | 13.9 | 0 |
| 33 | Ontario | 61 | 254 | 4 (6.6) | 49 (80.3) | 79.0 | 69.7 | 57 | 349 | 116.2 | NM | NM | NM | NM | 16.4 | 0 |
| 34 | Fontana | 61 | 227 | 2 (3.3) | 47 (77.0) | 77.1 | 68.5 | 61 | 333 | 128.6 | NM | NM | NM | NM | 16.9 | 0 |
| 34 | San Bernardino | 59 | 271 | 3 (5.1) | 44 (74.6) | 80.5 | 69.2 | 60 | 327 | 119.4 | 0.09 | 0.07 | 0 | 0 | 17.8 | 0 |
| 35 | Redlands | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 37 | Crestline | 59 | 87 | 0 | 13 (22.0) | 39.1 | 34.9 | 61 | 160 | 58.2 | NM | NM | NM | NM | 10.2 | 0 |

Figure III-1B

ug/m³ - Micrograms per cubic meter of air.

AGM - Annual Geometric Mean.

g) - PM₁₀ suspended particulates samples were collected every 6 days using the size-selective inlet high volume sampler with quartz filter media (PM₁₀ refers to fine particles with aerodynamic diameter of 10 micrometers or less).h) - Total suspended particulates, Lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media. Federal TSP standard superceded by PM₁₀ standard, July 1, 1987.i) - Federal PM₁₀ standard is AAM > 50 ug/m³; state standard is AGM > 30 ug/m³.

LOS ANGELES, CA

CIVIC CENTER

PACIFIC

34° 03' N

118° 14' W

270 FT.

1976

| Month | Temperatures °F | | | | | | | | | | Normal Degree days Base 65 °F | | Precipitation in inches | | | | | | | | | | Relative % humidity pct. | | | | Wind | | | | Pct. of possible sunshine | Mean sky cover, tenths, sunrise to sunset | Mean number of days | | | | | | | | | | Average station pressure mb | |
|-------|-----------------|---------------|---------|----------------|------|---------------|------|--------|-----------------|-------|-------------------------------|-------|-------------------------|----------|-----------------|----------|--------------------|-------------------|------|----------|------|------|--------------------------|----------------------|--------------|-----------|--------------|-------|---------------|--------|---------------------------|---|--------------------------------|------------------------------------|--------------------------------|-------------------------------------|---------------|-------------------|---------------|-----------------|----------|---|-----------------------------|------|
| | Normal | | | | | Extremes | | | | | | | Water equivalent | | | | | Snow, ice pellets | | | | | Hour | Hour | Hour | Hour | Fastest mile | | | | | | Sunrise to sunset | | | | Precipitation | Snow, ice pellets | Thunderstorms | Temperatures °F | | | | Elev |
| | Daily maximum | Daily minimum | Monthly | Record highest | Year | Record lowest | Year | Normal | Maximum monthly | Year | Minimum monthly | Year | Maximum in 24 hrs. | Year | Maximum monthly | Year | Maximum in 24 hrs. | Year | Hour | Hour | Hour | Hour | Mean speed m.p.h. | Prevailing direction | Speed m.p.h. | Direction | Year | Clear | Partly cloudy | Cloudy | | | Precipitation 0.1 inch or more | Snow, ice pellets 1.0 inch or more | Thunderstorms 2 inches or more | Heavy fog, visibility 2 mi. or less | 30° and above | 32° and below | 32° and below | 32° and below | feet msl | | | |
| | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 04 | 10 | 16 | 22 | 24 | 23 | 35 | 35 | 32 | 34 | 34 | 34 | 36 | | | 36 | 23 | 23 | 36 | 36 | 36 | 36 | | | | | |
| | (a) | 74.3 | 55.3 | 64.8 | 110 | 1955 | 28 | 1949 | 1245 | 1185 | 14.05 | 14.94 | 1969 | 0.00 | 4.11 | 1956 | 0.3 | 1949 | 0.3 | 1949 | 75 | 53 | 53 | 72 | 6.2 | M | 49 | N | 1946 | 73 | | | 4.0 | 185 | 106 | 74 | 34 | 0 | 6 | 17 | 20 | 0 | 0 | |
| J | 66.5 | 46.8 | 56.7 | 95 | 1971 | 28 | 1949 | 268 | 10 | 3.00 | 14.94 | 1969 | 0.00 | 1976 | 6.81 | 1956 | 0.3 | 1949 | 0.3 | 1949 | 71 | 51 | 50 | 67 | 6.8 | NE | 49 | N | 1946 | 69 | 4.4 | 14 | 8 | 9 | 3 | 0 | 1 | 2 | 0 | 0 | 0 | | | |
| F | 67.6 | 48.5 | 58.1 | 91 | 1971 | 34 | 1949 | 207 | 14 | 2.77 | 12.42 | 1964 | 0.00 | 1976 | 6.81 | 1956 | 0.0 | 1951 | 0.3 | 1951 | 61 | 54 | 53 | 70 | 6.8 | NE | 49 | N | 1946 | 72 | 4.7 | 12 | 7 | 9 | 3 | 0 | 1 | 2 | 0 | 0 | 0 | | | |
| M | 68.8 | 49.8 | 59.2 | 94 | 1972 | 35 | 1970 | 196 | 10 | 2.19 | 8.14 | 1941 | 0.00 | 1959 | 3.41 | 1943 | 0.0 | 0.0 | 0.0 | 0.0 | 74 | 52 | 52 | 72 | 7.0 | NE | 49 | N | 1964 | 69 | 4.7 | 12 | 7 | 9 | 3 | 0 | 1 | 2 | 0 | 0 | 0 | | | |
| A | 70.5 | 52.9 | 61.7 | 99 | 1966 | 39 | 1975 | 124 | 25 | 1.27 | 6.02 | 1965 | 0.00 | 1973 | 2.05 | 1956 | 0.0 | 0.0 | 0.0 | 0.0 | 78 | 53 | 54 | 74 | 6.6 | N | 40 | NH | 1955 | 70 | 4.7 | 12 | 10 | 9 | 4 | 0 | 1 | 2 | 0 | 0 | 0 | | | |
| M | 73.2 | 56.1 | 64.7 | 102 | 1967 | 46 | 1964 | 60 | 51 | 0.13 | 1.43 | 1953 | 0.00 | 1970 | 1.07 | 1955 | 0.0 | 0.0 | 0.0 | 0.0 | 81 | 56 | 53 | 79 | 6.3 | N | 39 | NH | 1963 | 66 | 4.9 | 11 | 12 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| J | 75.5 | 59.5 | 68.0 | 106 | 1973 | 50 | 1953 | 25 | 115 | 0.03 | 0.32 | 1964 | 0.00 | 1975 | 0.32 | 1964 | 0.0 | 0.0 | 0.0 | 0.0 | 85 | 59 | 56 | 78 | 5.7 | N | 32 | N | 1949 | 65 | 4.3 | 14 | 10 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| J | 82.9 | 63.5 | 73.2 | 103 | 1959 | 54 | 1952 | 0 | 258 | 0.00 | 0.03 | 1969 | 0.00 | 1976 | 0.03 | 1958 | 0.0 | 0.0 | 0.0 | 0.0 | 84 | 54 | 53 | 79 | 5.4 | N | 21 | N | 1947 | 82 | 2.7 | 21 | 9 | 1 | 9 | 0 | 0 | 1 | 4 | 0 | 0 | | | |
| A | 83.7 | 64.4 | 74.1 | 103 | 1967 | 53 | 1943 | 0 | 282 | 0.04 | 0.36 | 1958 | 0.00 | 1975 | 0.38 | 1958 | 0.0 | 0.0 | 0.0 | 0.0 | 84 | 54 | 53 | 79 | 5.3 | N | 24 | E | 1945 | 83 | 2.6 | 22 | 8 | 1 | 1 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | | |
| S | 82.5 | 62.8 | 72.7 | 110 | 1965 | 51 | 1948 | 9 | 236 | 0.17 | 2.83 | 1976 | 0.00 | 1975 | 1.83 | 1976 | 0.0 | 0.0 | 0.0 | 0.0 | 78 | 55 | 55 | 76 | 5.3 | N | 27 | NH | 1941 | 73 | 3.0 | 18 | 9 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| O | 78.0 | 58.7 | 68.4 | 104 | 1958 | 41 | 1971 | 35 | 140 | 0.27 | 1.53 | 1941 | 0.00 | 1970 | 0.62 | 1941 | 0.0 | 0.0 | 0.0 | 0.0 | 76 | 55 | 56 | 74 | 5.7 | N | 48 | N | 1959 | 73 | 3.0 | 18 | 9 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| N | 73.2 | 52.1 | 62.7 | 100 | 1966 | 39 | 1976 | 119 | 44 | 2.02 | 9.68 | 1965 | 0.00 | 1975 | 4.07 | 1970 | 0.0 | 0.0 | 0.0 | 0.0 | 61 | 45 | 49 | 62 | 6.4 | N | 42 | N | 1946 | 74 | 3.7 | 17 | 7 | 6 | 6 | 2 | 0 | 1 | 1 | 0 | 0 | | | |
| D | 68.0 | 48.1 | 58.1 | 89 | 1958 | 32 | 1951 | 218 | 0 | 2.16 | 6.57 | 1971 | T | 1963 | 3.92 | 1965 | T | 1947 | T | 1947 | 62 | 45 | 50 | 62 | 6.6 | NE | 44 | SE | 1943 | 71 | 4.2 | 15 | 9 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| YR | 74.3 | 55.3 | 64.8 | 110 | 1955 | 28 | 1949 | 1245 | 1185 | 14.05 | 14.94 | 1969 | 0.00 | JUL 1976 | 6.11 | JAN 1956 | 0.3 | JAN 1944 | 0.3 | JAN 1949 | 75 | 53 | 53 | 72 | 6.2 | M | 49 | N | JAN 1946 | 73 | 4.0 | 185 | 106 | 74 | 34 | 0 | 6 | 17 | 20 | 0 | 0 | 0 | | |

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows: Maximum monthly precipitation 15.80 in December 1889; maximum precipitation in 24 hours 7.36 in December 1933; maximum monthly snowfall 2.0 in January 1932; maximum snowfall in 24 hours 2.0 in January 1932.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
† Trace.

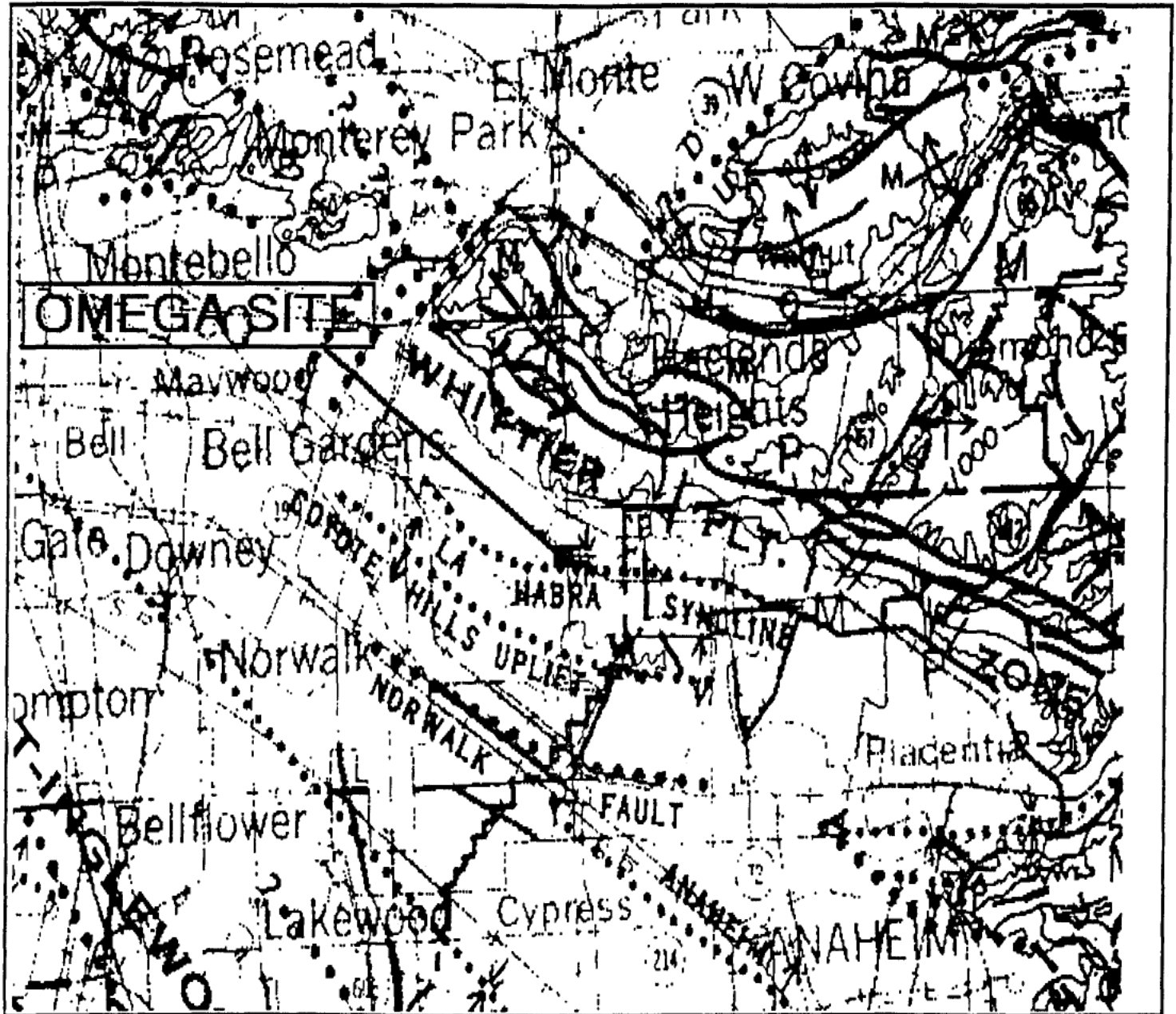
NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

§ Through 1963.

‡ Through 1964. The station did not operate 24 hours daily. Fog and thunderstorm data may be incomplete.

Figure III-C Climatological Summary

OMEGA RECOVERY SERVICES OPERATION PLAN PART B
FIGURE III-2



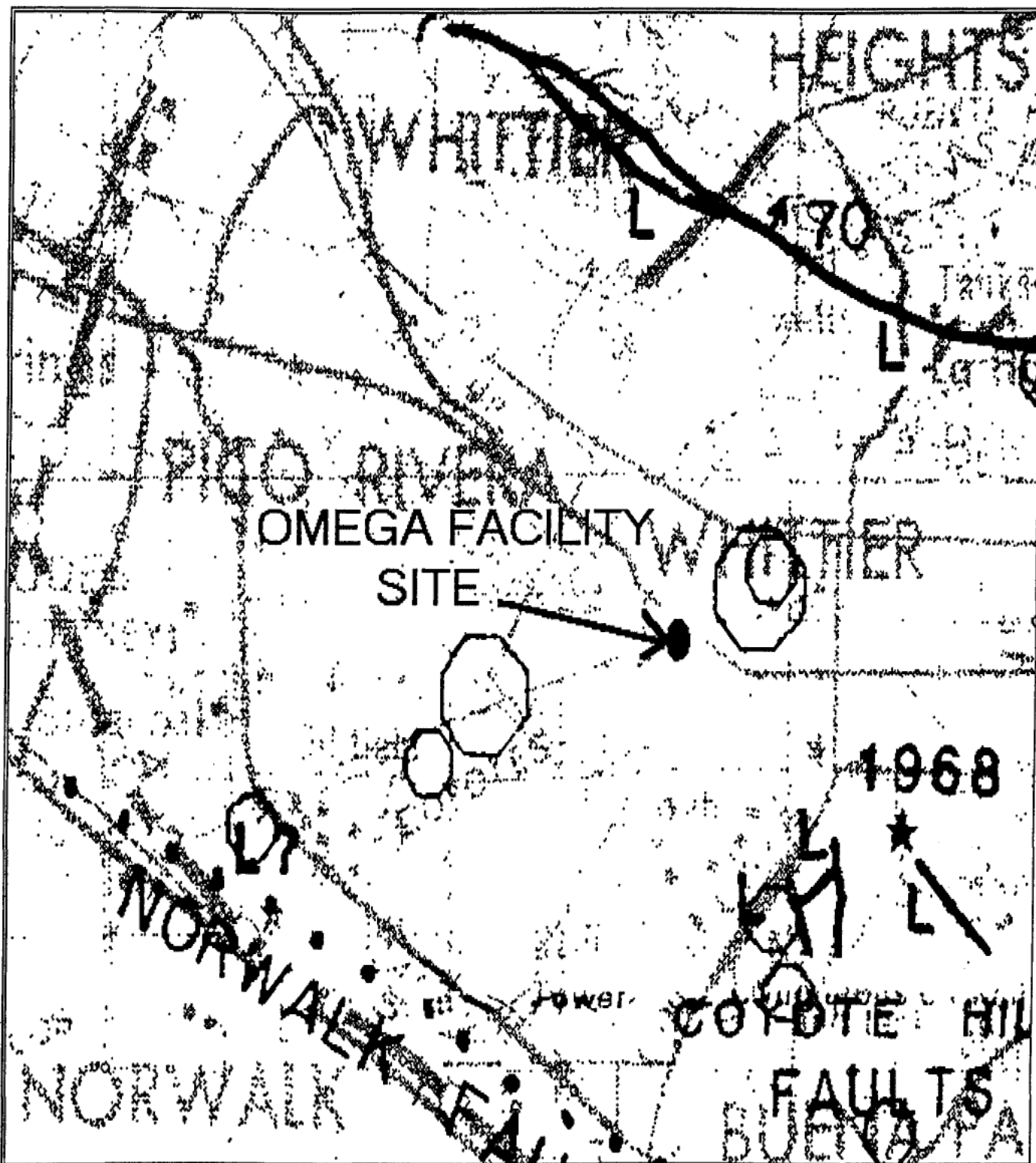
Map Source: Geologic Map of California, Dept of Conservation of California , 1977

Omega Whittier facility and its proximity to the Whittier Fault Line

< 10 miles >

OMEGA RECOVERY SERVICES OPERATION PLAN PART B

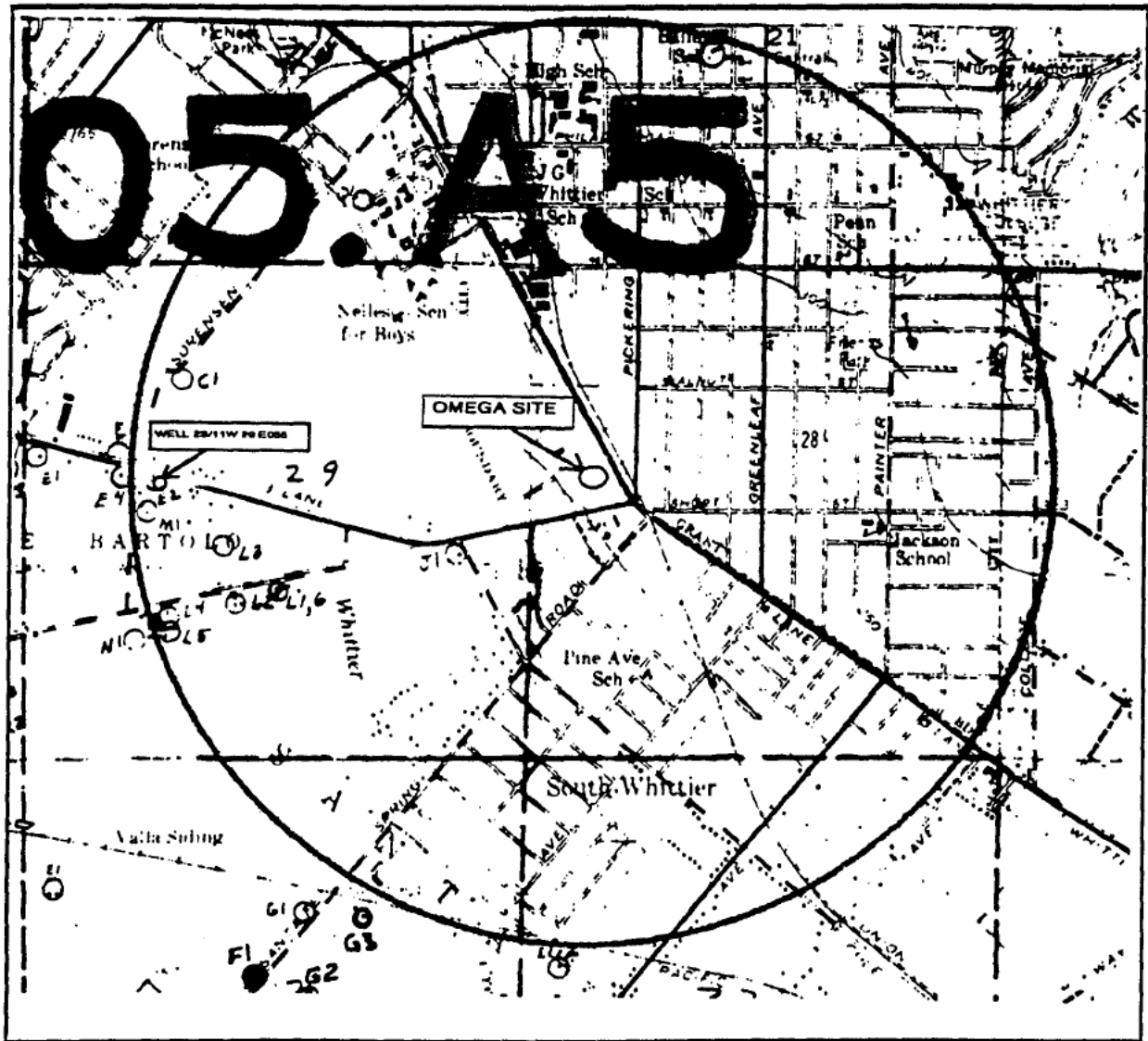
FIGURE III-3



MAP SOURCE: MAP SHOWING LATE QUATERNARY FAULTS AND 1978-84
SEISMICITY OF THE LOS ANGELES REGION, CALIFORNIA" Interior U.S.
Geological Survey, 1987

SCALE <-----2 MILES----->

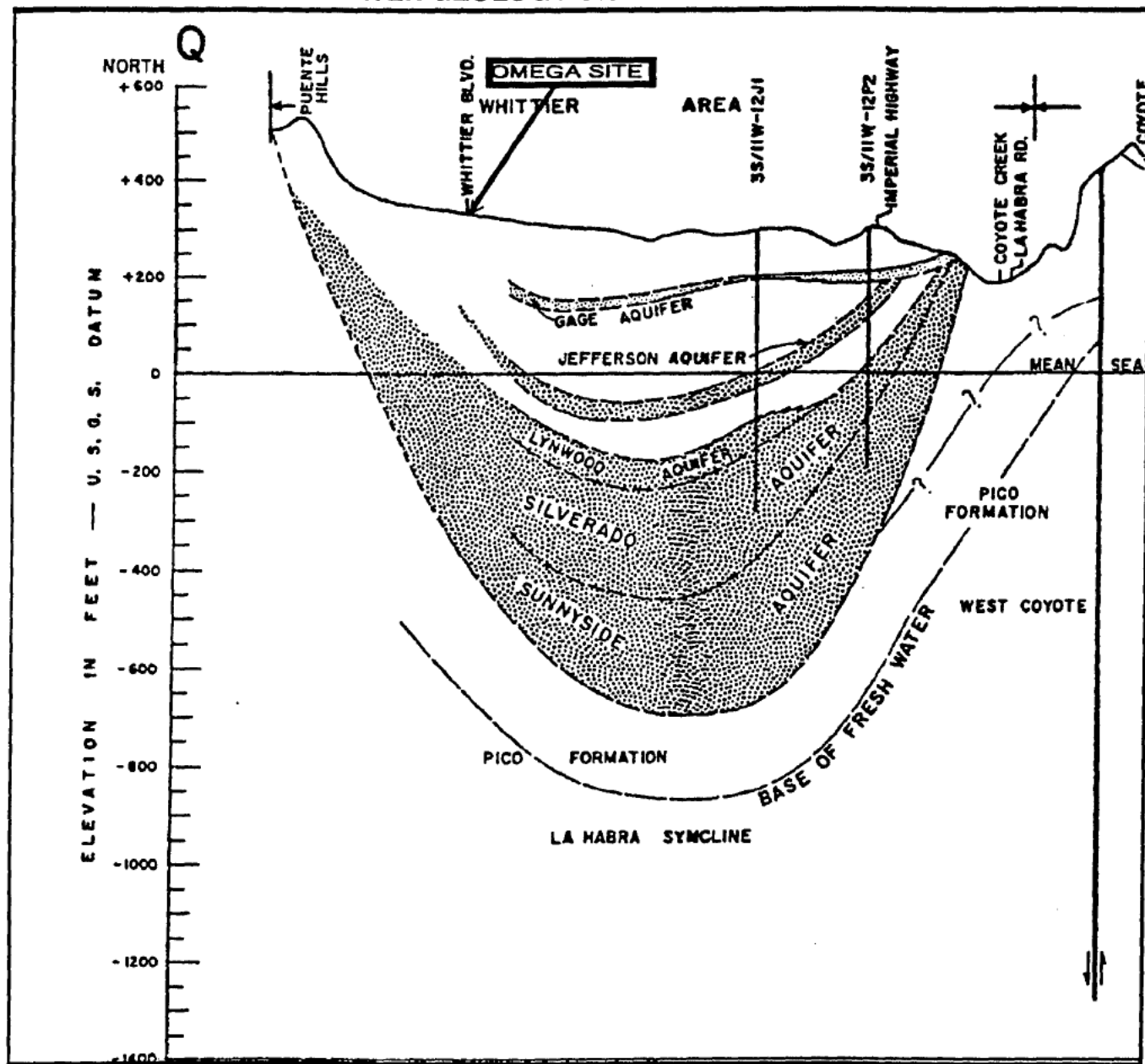
FIGURE III-4
WELL LOCATION MAP FOR THE WHITTIER SITE WITHIN ONE MILE
RADIUS



SOURCE: "Well Location Map from California Water Resources Whittier Quadrangle"

This displays the wells located within one mile radius of the Omega Facility. The Well number 2S/11W 29 05E is marked. This is the only well with water data generated within 10 years.

FIGURE III-5
GROUND WATER GEOLOGY UNDER THE WHITTIER SITE



Source: "Ground Water Geology of the Coastal Plain of the Los Angeles County"

This displays the depth to the various ground water aquifers near Omega's Whittier facility.

FIGURE III - 7
Ground Water Contours Map

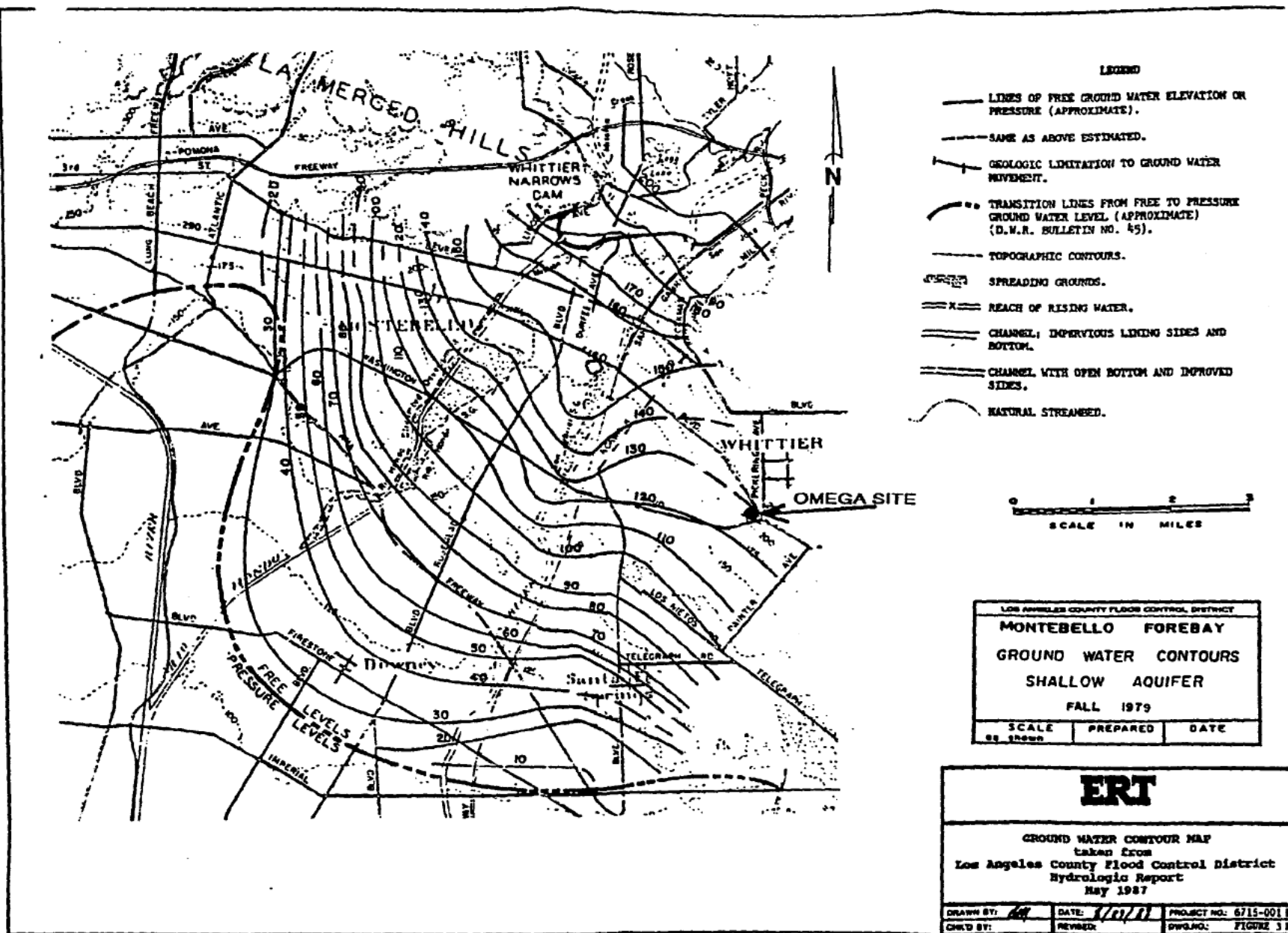
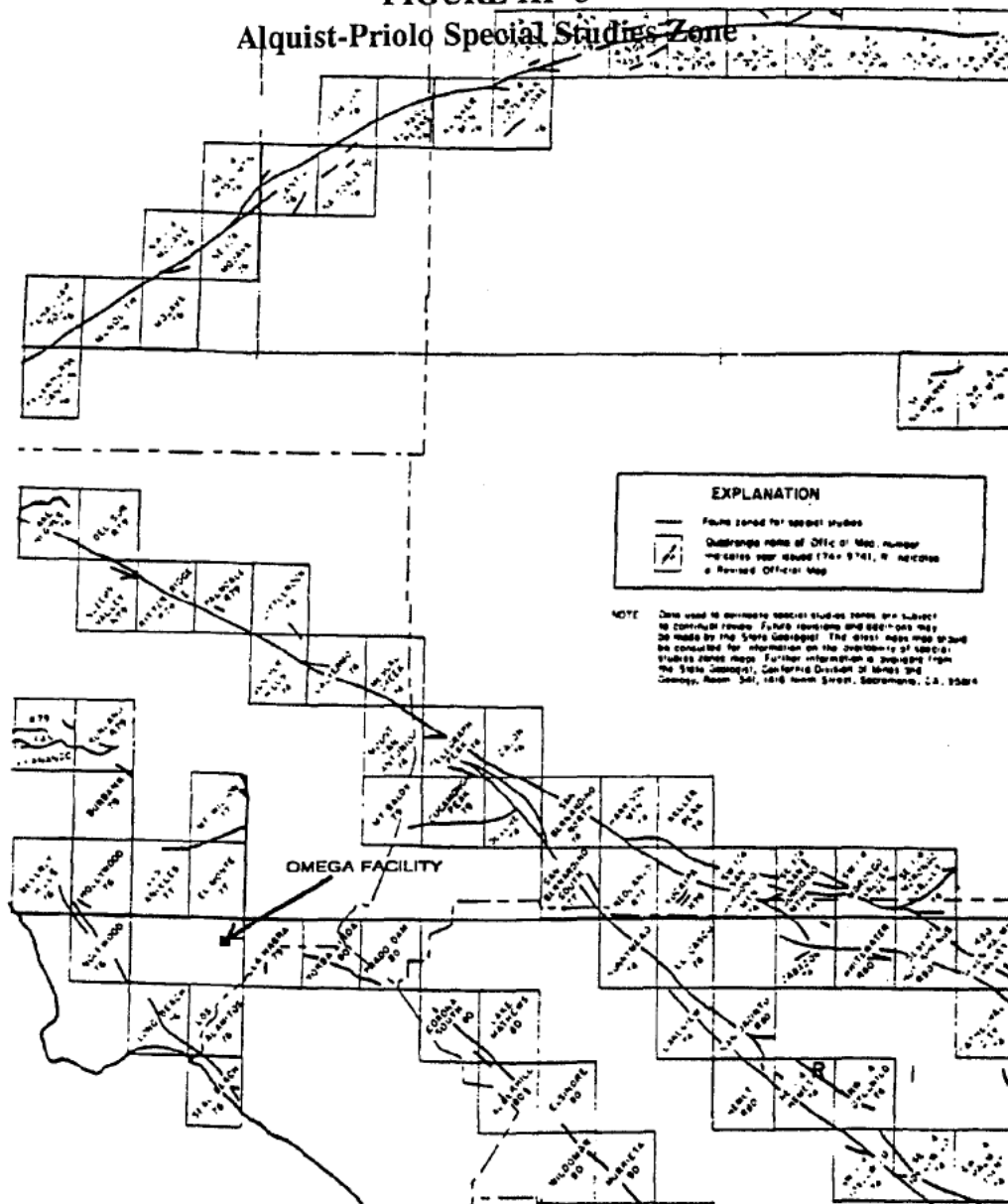


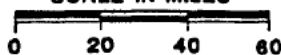
FIGURE III -8
Alquist-Priolo Special Studies Zone



Map Source: Department of Conservation Division of Mines and Geology 1985



SCALE IN MILES



FAULT-RUPTURE HAZARD ZONES IN CALIFORNIA